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4. A Revision of the Moths of the Subfamily *Pyraustinae* and Family *Pyralidae*. By Sir G. F. HAMPSON, Bart., F.Z.S. &c.

PART II.¹

[Received January 10, 1899.]

In the first part of this paper, the classification of the subfamily *Pyraustinae* of the *Pyralidae* was completed as far as the end of the 1st group of genera with upturned palpi; in the present part the second group of genera with porrect palpi is dealt with. The key to all the genera of the subfamily, the phylogenetic table, and the plates illustrating some of the new species were given in the first part of the paper.

We should be greatly obliged for the loan of specimens of any of the species mentioned in the series of papers on the *Pyralidae* that I have been unable to identify; they would be carefully packed and returned after examination.

Genus 88. MEGAPHYSA.

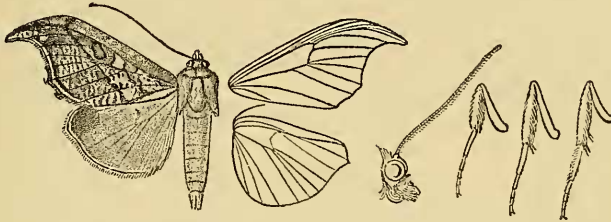
Megaphysa Guen. Delt. & Pyr. p. 213 (1854).

Palpi porrect, short, the 2nd joint very broadly fringed with scales below, the 3rd short, naked and downturned; maxillary palpi filiform; frons rounded; antennæ of male ciliated; tibiæ fringed with thick hair on inner side, hind tarsi with the 1st joint fringed with hair on outer side. Fore wing with the costa very

¹ Continued from P. Z. S. 1898, pp. 590-760.

much arched towards apex, which is produced and extremely falcate; the outer margin excurved below middle; veins 3, 4, 5 from angle of cell; 7 curved and approximated to 8, 9, to which 10 also is approximated. Hind wing with the cell rather short; veins 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 88.

*Megaphysa herbiferalis*, ♂. ♀.

Type. MEGAPHYSA HERBIFERALIS Guen. Delt. & Pyr. p. 213, pl. 5. f. 9.
Colombia; Ecuador.

Genus 89. FURCIVENA.

Furcivena Hmps. Moths Ind. iv. p. 374 (1896).

Palpi porrect, the 2nd joint fringed with scales below, the 3rd naked; maxillary palpi filiform, frons flat and oblique; tibiæ with the outer spurs half the length of inner. Fore wing with vein 3 from angle of cell; 4, 5 stalked; 7 and 10 well separated from 8, 9. Hind wing with the cell about half the length of wing; vein 3 from angle; 4, 5 stalked; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 89.

*Furcivena strigiferalis*, ♂. ♀. (From Moths Ind. vol. iv.)

SECT. I. Antennæ of male thickened and flattened.

Type. (1)†FURCIVENA STRIGIFERALIS Hampsn. Moths Ind. iv. p. 374.
Sikhim.

SECT. II. Antennæ of male annulate.

(2)*FURCIVENA RHODONEURIALIS, n. sp.

♂. White tinged with yellowish. Fore wing with slight pink suffusion on disk; the cilia brown at middle and tornus. Hind wing whiter, with discoidal brown point; some pink suffusion in

and below cell and near the medial and postmedial brown lines, the former from below costa, excurved at median nervules and recurved at vein 1, the latter straight from costa to vein 5, then excurved to termen; an apical brown patch and line through the cilia. Underside of fore wing pale chestnut, with whitish patch below cell; irregular streaks and patches of black scales in and below cell and patches of opalescent scales on median nervure and in and beyond end of cell; some pink suffusion below end of cell; two irregular brown-edged postmedial patches of opalescent scales; a similar curved line across apical area ending on termen at vein 2; a white patch on termen below apex; hind wing strongly irrorated and suffused with pink.

Hab. Niger, Warri (*Roth*). *Exp.* 18 mm. Type in Coll. Rothschild.

Genus 90. SAMEODES.

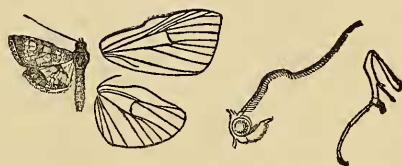
Sameodes Snell. Tijds. v. Ent. 1880, p. 217.

Pessocosma Meyr. Trans. Ent. Soc. 1884, p. 301.

Mimorista Warr. A. M. N. H. (6) vi. p. 476 (1890).

Palpi rostriform, extending about the length of head, the 3rd joint prominent and downcurved; maxillary palpi filiform; frons rounded. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with the costa slightly excised beyond middle; veins 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 90.



Sameodes cancellalis, ♂. †. (From Moths Ind. vol. iv.)

SECT I. Antennæ of male with long cilia and sinuous at middle; both wings with the apex somewhat produced.

A. (*Sameodes*). Male with a swelling on outer side of mid tibia before the medial spurs, of which the outer is minute, the terminal spurs replaced by a small tuft of scales; the tibia bent beyond middle. Fore wing with a large medial costal lobe on upperside; hind wing with the costa excised before the middle as well as after.

Type. (1) SAMEODES CANCELLALIS Zell. Lep. Caffr. p. 34. Africa; India, Ceylon, & Burma; Java; Australia.

†*Stenia pipileisalis* Wlk. xvii. 420; Moore, Lep. Ceyl. iii. pl. 181. f. 14.

†*Lepyrodes lepidalis* Wlk. xvii. 465.

†*Samea sidealis* Wlk. xix. 937.

†*Hymenia meridionalis* Wlk. xxxiv. 1314.

Sameodes trithyralis Snell. Tijd. v. Ent. 1880, p. 218, & 1883,
pl. 8. f. 4.

Samea vespertinalis Saalm. Ber. Senck. Ges. 1880, p. 301.

B. (*Pessocosma*). Male with the hind tibiæ not distorted, the outer spurs half the length of inner; fore wing with no costal lobe.

(2)†SAMEODES PERITALIS Wlk. xvii. 466; Hmps. Ill. Het. ix.
pl. 174. f. 21. India; Ceylon.

(3)†SAMEODES BISTIGMALIS Pryer, Cist. Ent. ii. p. 234, pl. 4.
f. 10 (♀). N. China.

(4)†SAMEODES IOLEALIS Wlk. xvii. 466. Australia.

SECT. II. (*Mimorista*). Antennæ of male normal and minutely ciliated.

A. Hind wing of male with the cell very short, its upper part filled by a large hyaline fovea.

(5) SAMEODES MILTOCHRISTALIS Hmps. Moths Ind. iv. p. 375.
N.E. India; Burma.

B. Hind wing of male normal.

a. Fore wing with tooth of scales on inner margin before middle.

(6)†SAMEODES NOTODONTALIS, n. sp.

♀. Head and thorax yellow and fiery orange; abdomen ochreous. Fore wing suffused with fiery orange, leaving subbasal, antemedial, and medial series of ill-defined yellow spots; an oblique medial pinkish band expanding towards costa; the terminal area pinkish, its inner edge with darker points and obtusely angled at vein 5. Hind wing semihyaline yellow, tinged with fuscous towards termen.

Hab. Sandakan, Borneo (*Pryer*). *Exp.* 20 mm.

b. Fore wing without scale-tooth on inner margin.

(7)†SAMEODES OLESIALIS Wlk. xviii. 748 (♀). W. Africa.

(8) SAMEODES BOTYDALIS Guen. Delt. & Pyr. p. 197. W. States,
C. & S. Amer.

Botys acutalis Snell. Tijd. v. Ent. 1875, p. 200, pl. 11. f. 10.

(9)†SAMEODES SANGUIMARGINALIS, n. sp. (1898, Plate L. fig. 27.)

♀. Head, thorax, and abdomen pink. Fore wing hyaline yellow; the base and costal area pink, the latter emitting a small tooth in cell and a triangular patch on discocellulars; a large quadrate pink apical patch extending down to vein 5, with traces

of an oblique dentate postmedial fuscous line from its lower edge and yellowish terminal patches on it in the interspaces; a fine terminal pink line running a short way inwards on inner margin. Hind wing hyaline yellow, with fuscous discal point and very indistinct dentate postmedial line bent outwards between veins 5 and 2; a terminal pink line expanding slightly at apex and at vein 2.

Hab. Colombia, Bogota. *Exp.* 40 mm.

(10)†SAMEODES SUFFUSALIS, n. sp.

♂. Pale red-brown. Fore wing with dark-edged hyaline specks at and below middle of cell and larger spots in and below end of cell; a hyaline postmedial band from subcostals to vein 2, then curving round to lower angle of cell, edged on inner side by a black line and traversed by a minutely crenulate black line. Hind wing semihyaline white, with black-edged fulvous spots in and below middle of cell and larger spot in end of cell; a postmedial wavy black line bent outwards between veins 5 and 2; a fulvous marginal band, wide at apex, narrowing to anal angle.

Hab. Pernambuco; Argentina. *Exp.* 22 mm.

(11)†SAMEODES ENDERYTHRALIS, n. sp.

♂. Dull brown; abdomen reddish on dorsum; palpi at base, pectus, and ventral surface of abdomen white. Fore wing with the basal area below the cell orange, with patches of red scales; traces of antemedial and medial lines on inner area; a hyaline discal point; a postmedial orange wedge-shaped patch from costa to vein 5, traversed by the postmedial line, which is obtusely angled at vein 6. Hind wing with the basal half orange, with diffused sinuous subbasal and antemedial bands; the terminal half brown with some red on its inner edge.

Hab. Sikkim (*Pilcher*). *Exp.* 15 mm.

(12) SAMEODES PICTALIS Swinh. A. M. N. H. (6) xvi. p. 303.

Assam.

(13) SAMEODES MONOSTICTALIS, n. sp.

Orange; legs white. Fore wing with indistinct sinuous fulvous antemedial line; a large fulvous patch in and beyond end of cell, with traces of a hyaline point at middle of cell and a prominent discoidal hyaline spot; an indistinct fulvous postmedial line slightly bent outwards between veins 6 and 2, then retracted to lower angle of cell and slightly bent outwards again; an indistinct curved submarginal line. Hind wing with irregularly wavy antemedial and postmedial and submarginal lines, the two latter anastomosing towards tornus.

Hab. Amboina; Humboldt Bay, N. Guinea (*Doherty*). *Exp.* 20 mm. Types in Coll. Rothschild and B.M.

(14)†SAMEODES HILARODES Meyr. Trans. Ent. Soc. 1894, p. 465.

Borneo; Pulo Laut.

(15)†SAMEODES DISTICTALIS, n. sp.

Differs from *hilarodes* in the antemedial line of fore wing being almost obsolete; no hyaline spot below the cell and the retracted portion of the postmedial line straight; the postmedial line bent inwards below costa, with a hyaline spot on its inner side instead of the hyaline band on its outer side. Hind wing with large hyaline spot in end of cell.

Hab. Pulo Laut (*Doherty*). *Exp.* 18 mm. Type in B.M.

(16)†SAMEODES FLAVIDISSIMALIS Grote, Can. Ent. ix. p. 105.

U.S.A.

(17) SAMEODES CAMBOGIALIS Guen. Delt. & Pyr. p. 331.

†*Botys lucilla* Butl. P. Z. S. 1878, p. 494. W. Indies; Brazil.

(18)†SAMEODES CITRINALIS, n. sp.

♂. Pale lemon-yellow. Fore wing with oblique antemedial fuscous line; a large fuscous patch filling the end of cell, the area just beyond it, and extending up to costa, with a hyaline spot in end of cell and an oblique series of five spots beyond the cell between the veins; a submarginal fuscous line obtusely angled at vein 5. Hind wing yellowish white.

Hab. Dominica (*W. H. Elliot*). *Exp.* 18 mm.

(19)*SAMEODES POLYTHLIPTALIS, n. sp.

♂. Fuscous suffused with grey; palpi white at base; abdomen ringed with white and with the ventral surface white. Fore wing with dark-edged hyaline spot in and below middle of cell, with traces of a line from it to inner margin; a rounded spot in end of cell; a diamond-shaped spot below vein 2 near its origin, and a dentate postmedial band formed of four conjoined spots between costa and vein 5. Hind wing semihyaline yellow with the base fuscous; triangular fuscous marks from costa at and beyond end of cell; the terminal area fuscous suffused with grey, with irregular dark line on its inner edge and dark terminal line; cilia white.

Hab. Humboldt Bay, N. Guinea (*Doherty*). *Exp.* 26 mm. Type in Coll. Rothschild.

Genus 91. MEROCTENA.

Meroctena Led. Wien. Ent. Mon. 1863, p. 392.

Palpi porrect, straight, the 2nd joint fringed above and below

Fig. 91.



Meroctena tullalis, ♂. $\frac{1}{4}$. (From *Moths Ind.* vol. iv.)

with hair, the 3rd naked; maxillary palpi filiform; tibiæ of male with the outer spurs minute; abdomen with the anal tuft very large. Fore wing with veins 3, 4, 5 from close to angle of cell; 7 curved and approximated to 8, 9 for some distance; 10 also approximated to 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

SECT. I. Antennæ of male unipunctate for one-third length, the basal joint emitting four teeth enclosing a hollow in front like the calyx of a flower.

Type. (1)†*MEROCTENA TULLALIS* Wlk. xviii. 649; Hmps. Ill. Het. ix. pl. 172. f. 11. Indian & Malayan subregions.

(2) *MEROCTENA STANTONI* Led. Wien. Ent. Mon. 1863, p. 392, pl. 13. f. 4. Pulo Laut; Java; Fiji.

†*Lygropis siriovantha* Meyr. Trans. Ent. Soc. 1886, p. 262.

SECT. II. Antennæ of male with the basal half serrate and fasciculate, a large tuft of scales on upperside at one-fifth from base; palpi with the 3rd joint short, flattened, rounded, the outer side hollowed out and curled over at tip.

(3)†*MEROCTENA DICHOSIALIS*, n. sp. (1898, Plate L. fig. 22.)

♂. Orange; fore tibiæ with black band; abdomen with two conjoined dorsal black spots on subbasal segment and dorsal band on subterminal segment with silvery-white posterior edge. Fore wing with black spot at base of costa; an antemedial black line expanding into a spot on costa; a discoidal lunule; the postmedial line represented by an oblique straight line from costa to vein 5, a subterminal spot on vein 4 and small spot below vein 2, and a large spot near base of vein 2. Hind wing with large lunule beyond to cell; a subterminal spot between veins 2 and 4 and an oblique line from near lower angle of cell becoming obsolete before tornus; both wings with fine terminal line.

Hab. Bali, 2500 feet (*Doherty*). *Exp.* 30 mm.

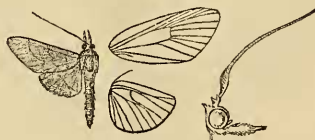
Genus 92. THLIPTOCERAS.

Thliptoceras Swinh. Trans. Ent. Soc. 1890, p. 274.

Prophantis Warr. A. M. N. H. (6) xviii. p. 113 (1896).

Palpi porrect, straight, about twice the length of head, the 2nd

Fig. 92.



Thliptoceras cascale, ♂. †. (From *Moths Ind.* vol. iv.)

joint fringed above and below with hair, the 3rd prominent; maxillary palpi filiform; frons rounded; hind tibiæ with the outer medial spur minute. Fore wing produced at apex, the outer margin oblique; veins 3, 5 from close to angle of cell; 7 straight and well separated from 8, 9. Hind wing with the cell short; the discocellulars produced along vein 4, which is approximated to 5; 6, 7 stalked, 7 anastomosing strongly with 8.

SECT. I. (*Thliptoceras*). Antennæ of male with two curved teeth on basal joint forming an upturned cavity, the basal part of shaft curved, then expanded into a cavity formed of short appressed pectinations.

- Type.* (1)†*THLIPTOCERAS CASCALE* Swinh. Trans. Ent. Soc. 1890, p. 271, pl. 8. f. 18. Japan; India, Ceylon, & Burma.
Thliptoceras variabilis Swinh. Trans. Ent. Soc. 1890, p. 274; Hmps. Ill. Het. viii. pl. 156. ff. 2, 10.
Circobotys phycidalis Snell. Trans. Ent. Soc. 1890, p. 599.

SECT. II. Antennæ of male with the basal joint excised and with a slight tuft of hair from inner side; fore wing less produced at apex, the costa highly arched before middle. Hind wing with the inner area clothed with long hair; patagia extending beyond metathorax.

- (2)**THLIPTOCERAS STYGIALE* Hmps. Moths of India, iv. p. 373. Assam.

SECT. III. (*Prophantis*). Antennæ of male ciliated.

- (3) *THLIPTOCERAS OCTOGUTTALE* Feld. Reis. Nov. pl. 135. f. 38. Natal; Indian & Malayan subregions to Australia.
 †*Pyralis smaragdina* Butl. A. M. N. H. (4) xvi. p. 411 (1875).

- (4)**THLIPTOCERAS DISTICTALIS*, n. sp.

♀. Head, thorax, and abdomen pale reddish brown; palpi blackish at sides, whitish below; wings purplish brown. Fore wing with two obliquely placed orange subbasal points and some diffused orange on inner margin; a white bar across end of cell and spot below end; the costa orange, with 6 or 7 black points from above end of cell to the wedge-shaped subterminal band which ends on vein 5; termen and cilia orange with purplish points. Hind wing with some diffused orange on basal area, and two spots in cell conjoined to the whitish costal area; a medial yellow band narrowing to inner margin; the termen and cilia orange.

Hab. Katha, Burma. *Exp.* 28 mm. Type in Coll. Rothschild.

- (5)†*THLIPTOCERAS CENOSTOLALIS*, n. sp.

♂. Head and tegulæ ochreous; palpi black at sides, white below;

thorax and abdomen fuscous, the latter ochreous towards extremity. Fore wing fuscous grey, with diffused blackish antemedial patch; the costa from it to apex orange; a triangular yellow medial patch before the postmedial line extending down to vein 2 and containing a dark-edged orange discoidal spot; the postmedial line oblique, slightly excurved between veins 5 and 2, then retracted to below end of cell. Hind wing fuscous, with obscure medial line; both wings with the cilia yellow, except at middle. Underside of fore wing with two dark-edged orange spots in cell.

Hab. Sierra Leone (*Clements*). *Exp.* 22 mm.

(6)†*THLIPTOCERAS POLYGRAMMODES*, n. sp.

Head, thorax, and abdomen rufous; vertex of head yellowish; abdomen with two white spots on 1st segment. Fore wing rufous; a very ill-defined yellowish antemedial band not reaching the costa; a quadrate spot in end of cell; a large postmedial yellow area not reaching the costa and traversed by the postmedial sinuous line, which has a series of yellow spots beyond it from costa to vein 2, where it is retracted to lower angle of cell. Hind wing yellow with the base rufous; a rounded rufous discoidal spot; a sinuous postmedial line bent outwards between veins 5 and 2, then retracted to below angle of cell; the terminal area rufous with waved inner edge.

Hab. Natal, Mooi River. *Exp.* 40 mm.

Genus 93. *ARCHERNIS*.

Archernis Meyr. P. Linn. Soc. N.S.W. ii. 1, p. 254 (1886).

Protonoceras Warr. A. M. N. H. (6) vi. p. 457 (1890).

Metaporithra Meyr. Trans. Ent. Soc. 1894, p. 463.

Chrysommatodes Warr. A. M. N. H. (6) xvii. p. 105 (1896).

Palpi porrect, long and straight, the 2nd joint fringed with hair below, the 3rd prominent; maxillary palpi long and slightly dilated

Fig. 93.



Archernis capitalis, ♂. †. (From *Moths Ind.* vol. iv.)

with scales; frons rounded. Fore wing with veins 3, 4, 5 separate at origin; 7 nearly straight and well separated from 8, 9. Hind wing with the cell short; the discocellulars erect; veins 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

SECT. I. (*Protonoceras*). Male with a tuft of forwardly directed hair between the antennæ; antennæ with basal joint dilated, the shaft given off from its outer side, much bent near base, then with some small serrations on inner side and with long cilia.

A. Antennæ of male with long curved tuft of hair from inner side of basal joint, the tuft between antennæ long.

- (1) †ARCHERNIS CAPITALIS Fabr. Suppl. Ent. Syst. p. 468 (1798).
Formosa; India, Ceylon, & Burma.
Botys tropicalis Wlk. xviii. 670; Moore, Lep. Ceyl. iii. pl. 181.
f. 9.

B. Antennæ of male without the curved tuft from basal joint, the frontal tuft less developed.

- (2) ARCHERNIS DOLOPSALIS Wlk. xviii. 692. S. India, Ceylon,
Burma; Borneo; Mysol.
Botys fimbripunctalis Wlk. xxxiv. 1425.
†*Protonoceras fuscilunalis* Hmps. Ill. Het. viii. p. 134, pl. 155.
f. 22.

SECT. II. Antennæ of male serrate at base and with a tuft of hair on inner side at one-third.

- (3) †ARCHERNIS FULVALIS Hmps. Journ. Bomb. Nat. Hist.
Soc. ined. Sikhim; Ceylon.

SECT. III. Antennæ of male normal.

- (4) †ARCHERNIS HUMILIS Swinh. A. M. N. H. (6) xiv. p. 146.
Assam.
(5) †ARCHERNIS NICTITANS Swinh. A. M. N. H. (6) xiv. p. 146.
Assam.
(6)*ARCHERNIS LUGENS Warr. A. M. N. H. (6) xviii. p. 110.
Assam.
(7)*ARCHERNIS SCOPULALIS Wlk. xxxiv. 1438. Flores.

Type (8) ARCHERNIS CALLIXANTHA MEYER. P. Linn. Soc. N.S.W. ii. 1,
p. 254. Pulo Laut; New Guinea; Australia.
Chrysommatodes areoflavalis Warr. A. M. N. H. (6) xvii.
p. 105.

- (9) †ARCHERNIS OBLIQUALIS Hmps. Moths Ind. iv. p. 380.
Sikhim.

- (10) ARCHERNIS IGNEALIS Wlk. xxxiv. 1423. Mysol; N. Guinea;
Queensland.

Genus 94. TERASTIA.

Terastia Guen. Delt. & Pyr. p. 211 (1854).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair;

maxillary palpi filiform; frons flat and oblique; antennæ of male ciliated; fore tibiæ fringed with long hair; mid and hind tibiæ with the outer spurs about half the length of inner; abdomen of male with lateral tufts on the last three segments, the anal tuft long. Fore wing long and narrow, the costa arched towards apex, which is produced, the outer margin excurved at middle; the inner margin excised before the outer angle, which is lobed; vein 3 from close to angle of cell; 4, 5 somewhat approximated for a short distance; 7 curved and approximated to 8, 9. Hind wing ample; the costa highly excised before and after middle; lobed at middle and towards apex; veins 4, 5 somewhat approximated for a short distance; the discocellulars erect; veins 6, 7 from upper angle, 7 touching but not anastomosing with 8.

Fig. 94.



Terastia meticulosalis, ♂. ♀. (From Moths Ind. vol. iv.)

- (1) *TERASTIA EGIALEALIS* Wlk. xvii. 383. Himalayas; Java.
 „ *procelalis* Led. Wien. Ent. Mon. 1863, p. 416.
 †*Agathodes diversalis* Wlk. xxxiv. 1307.
 †*Megaphysa quadriferalis* Wlk. xxxiv. 1628.

Type. (2) *TERASTIA METICULOSALIS* Guen. Delt. & Pyr. p. 212.
 „ *subjectalis* Led. Wien. Ent. Mon. W. Indies; Ceylon; Java;
 1863, p. 480. Philippines.
 †*Megaphysa quadratalis* Wlk. xxxiv. 1527.
Megastes cæligenalis Hulst, Tr. Am. Ent. Soc. xiii. p. 156.

- (3) *TERASTIA MARGARITIS* Feld. Reis. Nov. pl. 136. f. 40. Natal.

Genus 95. MEGASTES.

Megastes Guen. Delt. & Pyr. p. 375 (1854).

Palpi porrect, extending about the length of head, the 2nd joint fringed with hair below, the 3rd prominent and thickly scaled; maxillary palpi triangularly dilated with scales; frons rounded; antennæ of male bipectinate; build stout; tibiæ with the outer spurs about half the length of inner. Fore wing with the costa highly arched towards apex, which is somewhat produced; the inner margin excised before outer angle, which is hooked; veins 3, 4, 5 from angle of cell; 7 curved and approximated to 8, 9. Hind wing with the cell half the length of wing; vein 3 from angle; 4,

5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 95.

*Megastes grandalis*, ♂. ♀.

Type. (1) MEGASTES GRANDALIS Guen. Delt. & Pyr. p. 376. Venezuela.

(2)*MEGASTES SPILOSOMA Feld. Reis. Nov. pl. 135. f. 48. Brazil.

Auctorum.

Megastes pusialis Snell. Tijd. v. Ent. xviii. p. 241, pl. 13. f. 15.
Brazil.

Genus 96. OMPHISA.

Omphisa Moore, Lep. Ceyl. iii. p. 317 (1886).

Palpi porrect and straight, the 2nd joint fringed with hair below, the 3rd prominent; maxillary palpi well-developed and filiform; frons rounded; antennæ of male ciliated; patagia clothed with large scales; tibiæ with the outer spurs about half the length of inner, mid tibiæ clothed on outer side with spinous hair; abdomen with large lateral tufts on last five segments. Fore wing with veins 3, 4, 5 well separated at origin; 7 nearly straight and well separated from 8, 9; the costa arched towards apex, which is acute; the outer margin excurved at middle. Hind wing with the costa slightly excised at middle; the apex somewhat produced; the outer margin excurved at middle; the inner margin short; veins 4 and 5 approximated for a short distance; 6, 7 from upper angle, 7 free or anastomosing with 8.

Fig. 96.

*Omphisa anastomosalis*, ♂. ♀. (From *Moths Ind.* vol. iv.)

Type. (1) OMPHISA ANASTOMOSALIS Guen. Delt. & Pyr. p. 373.

China; India, Ceylon, & Burma; Andamans;

†*Botys illisalis* Wlk. xviii. 653; Moore, Java; Duke of York I.
Lep. Ceyl. iii. pl. 183. f. 4.

- (2) *OMPHISA REPETITALIS* Snell. Trans. Ent. Soc. 1890, p. 621, pl. xix. f. 6. Sikhim.
- (3)**OMPHISA PRAXITELES* Druce, Biol. Centr.-Am., Het. ii. p. 215, pl. 61. ff. 3, 4. Mexico; Centr. Amer.
- (4) *OMPHISA INGENS*, n. sp. (1898, Plate L. fig. 17.)

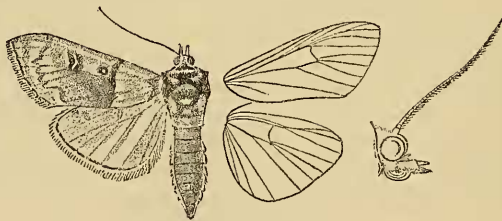
Yellowish rufous; wings with numerous fine dark striæ. Fore wing with traces of curved antemedial line; two dark spots towards apex above veins 6 and 7; both wings with very ill-defined darker medial and postmedial bands; underside with blackish discoidal marks on each wing.

Hab. Fergusson I., N. Guinea (*Meek*). *Exp.* 66 mm. Types in Coll. Rothschild and B.M.

Genus 97. LANIFERA, nov.

Palpi porrect, straight, and extending about the length of head, the 2nd joint clothed below with very long hair extending to end of the well-developed naked 3rd joint; maxillary palpi filiform; frons rounded; antennæ ciliated; vertex of head and thorax clothed with rough hair and scales; build stout; femora and tibiæ clothed with rough hair. Fore wing clothed with rather woolly hair; the costa arched towards apex; veins 3, 4, 5 from angle of cell; 7 curved and approximated to 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 stalked, 7 anastomosing slightly with 8.

Fig. 97.



Lanifera cyclades, ♂. †.

Type. *LANIFERA CYCLADES* Druce, Biol. Centr.-Am., Het. ii. p. 220, pl. 61. f. 12. Mexico.

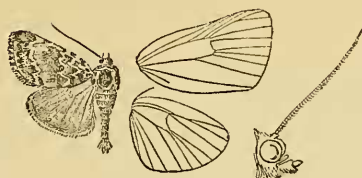
Genus 98. ORENAIA.

Oreania Dup. Cat. Méth. p. 196 (1831).

Palpi porrect, the 2nd joint fringed with long hair below, the 3rd prominent; maxillary palpi slightly dilated with scales; frons rounded; antennæ ciliated; tibiæ slightly scaled; wings short and broad. Fore wing with veins 3, 4, 5 well separated at origin; 7 straight and well separated from 8, 9. Hind wing with veins 3,

4, 5 from end of cell; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 98.



Orenaia alpestralis, ♂. †.

(1) *ORENAIA HELVETICALIS* H.-S. vi. p. 141, f. 127. Europe.
Hercyna lugubralis Led. Wien. Ent. Mon. 1857, p. 82 (var.).
 „ *conspurecalis* Lah. Suppl. p. 32.

(2) *ORENAIA RUPESTRALIS* Hübn. Pyr. ff. 201-203. C. Europe.
Hercyna anderegialis H.-S. vi. p. 140, ff. 124-126.

Type. (3) *ORENAIA ALPESTRALIS* Fabr. Ent. Syst. 350. Europe.
Crambus alpestris Fabr. Suppl. 466.
 „ *alpina* Hübn. Vög. & Schm. 21.

Auctorum.

Hercyna expansalis Eversm. Bull. Mosc. 1852, i. p. 168.

Ural Mts.

Genus 99. EVERGESTIS.

Evergestis Hübn. Verz. p. 354 (1827).

Homochroa Hübn. Verz. p. 358.

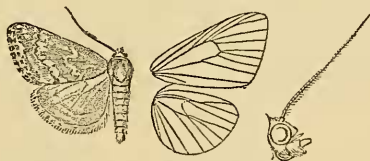
Scopolia Hübn. Verz. p. 368.

Orobena Guen. Delt. & Pyr. p. 376 (1856).

Parædis Grote, Check-List, i. p. 51 (1882).

Palpi porrect, the 2nd joint fringed with hair below, the 3rd naked; maxillary palpi long and filiform; frons oblique; antennæ ciliated; tibiæ with the outer spurs two-thirds length of inner.

Fig. 99.



Evergestis frumentalis, ♂. †.

Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

- (1)†EVERGESTIS FUNALIS Grote, Bull. U.S. Geol. Surv. iv. 670. U.S.A.
- (2) EVERGESTIS BRUNEOGRISEA Edw. Am. Ent. ii. p. 171. U.S.A.
- (3) EVERGESTIS NAPEALIS Hulst, Tr. Am. Ent. Soc. xiii. p. 145. U.S.A.
- (4) EVERGESTIS OBLIQUALIS Grote, Pr. Kans. Ac. viii. p. 56. U.S.A.
- (5) EVERGESTIS RIMOSALIS Guen. Delt. & Pyr. p. 371. U.S.A.
- (6) EVERGESTIS SOPHIALIS Fabr. Mant. ii. p. 217. Europe.
Phalæna variegalis Fabr. Mant. ii. p. 218.
- (7) EVERGESTIS SEGETALIS H.-S. vi. p. 142, f. 132. S. Europe;
Orobena blandalis Guen. Delt. & Pyr. p. 377. W. Asia.
- (8) EVERGESTIS FRUMENTALIS Linn. Syst. Nat. no. 337. Europe; W. Asia; Siberia.
Pyralis triquetralis Schiff. Wien. Verz. p. 120.
" *repandalis* Hübn. Pyr. f. 64.
" *implicalis* Guen. Delt. & Pyr. p. 379.
" var. *asiaticalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 168.
- (9) EVERGESTIS UMBROSALIS F. R. p. 274, pl. 92, f. 2.
Orobena orientalis Eversm. Bull. Mosc. 1842. W. & C. Asia.
- (10) EVERGESTIS NOMADALIS Led. Hor. Ent. Ross. 1871, p. 22, pl. 2, f. 10. Persia; Amur.
- (11) EVERGESTIS EXTIMALIS Scop. Ent. Carn. p. 614. U.S.A.;
Pyralis margaritalis Schiff. Wien. Verz. p. 123. Europe.
" *erucalis* Hübn. Pyr. f. 55.
Evergestis consimilis Warr. A. M. N. H. (6) ix. p. 433.
- (12) EVERGESTIS STRAMINALIS Hübn. Vög. & Schmett. 82.
Pyralis elutalis Hübn. Pyr. f. 62. U.S.A.; Europe.
†*Pionea eunusalis* Wlk. xviii. 756.
- (13) EVERGESTIS POLITALIS Schiff. Wien. Verz. p. 121. S. Europe.
Orobena dispersalis Mann. Wien. Ent. Mon. 1859, p. 162 (var.).
" *bicoloralis* Lah. Contr. p. 21.
- Type. (14) EVERGESTIS LIMBATA Linn. Syst. Nat. xii. 873. S. Europe;
Mesographe prateatalis Hübn. Verz. p. 354. W. Asia.
Pyralis politalis Hübn. Pyr. f. 61.
- (15) EVERGESTIS JUNCTALIS Warr. A. M. N. H. (6) ix. p. 434. Japan.
- (16) EVERGESTIS SUBFUSCALIS Staud. Hor. Ent. Ross. 1870, p. 192, pl. 2, f. 9. S. Europe; W. Asia.
- (17) EVERGESTIS GENEALIS Schiff. Wien. Verz. p. 123. Europe.
Pyralis furvalis Hübn. Pyr. f. 53.
" *rufinitralis* Hübn. Pyr. f. 120.

Auctorum.

- Orobena lemniscalis* Möschl. Verh. z.-b. Wien, xxxi. p. 425.
Surinam.
- „ *grunmi* Chr. Rom. Mém. ii. p. 147, pl. vii. f. 14.
C. Asia.
- „ *subcitrinalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 157. U.S.A.
- „ *seminivealis* Hulst, Tr. Am. Ent. Soc. xiii. p. 157. U.S.A.
- „ *manglisalis* Ersch, Hor. Ent. Ross. xii. p. 339, & Rom.
Mém. iii. pl. ii. f. 8. Transcaucasus.
- Hercyna anartalis* Stgr. Deutsche E. Zeit., Lep. v. pl. iii. f. 17,
& vi. p. 72. C. Asia.
- Scopolia helenalis* Stgr. Hor. Ent. Ross. 1870, p. 195, pl. ii. f. 12.
E. Europe; W. Asia.
- Orobena allardalis* Oberth. Bull. Soc. Ent. Fr. (6) vii. p. xcix, &
Et. Ent. xii. pl. vii. f. 54. Algeria.
- Eurycreon pechi* Baker, Ent. Mo. Mag. xxi. p. 268. Algeria.
- Orobena renatalis* Oberth. Bull. Soc. Ent. Fr. (6) vii. p. xcix, &
Et. Ent. xii. pl. vi. f. 36. Algeria.
- Botys seriazatis* Stgr. Deutsche E. Zeit., Lep. v. pl. iii. f. 15, &
vi. p. 79. Algeria.
- „ *cæsius* H.-S. iv. p. 115, f. 116. Europe.
- Orobena vagabundalis* Christ. S. E. Z. xlvi. p. 166, & Rom. Mém.
iii. pl. iii. f. 7. Persia.
- „ *infirmalis* Stgr. Hor. Ent. Ross. 1870, p. 190, pl. ii.
f. 13. S.E. Europe.
- Pionea bifascialis* Guen. Alg. iii. p. 403, & Oberth. Et. Ent. xii.
pl. vi. f. 40. Algeria.
- Orobena submundalis* Mill. Ann. Soc. L. Lyon. xxix. p. 160, pl. ii.
f. 2. S. France.
- Scopula mundalis* Guen. Delt. & Pyr. p. 389. S. Europe.
- Orobena implicitalis* Möschl. Abh. Senck. Ges. xvi. p. 292.
Porto Rico.
- „ *plumbo-fascialis* Rag. Ann. Soc. Ent. Fr. 1894, p. 168.
Spain.

Genus 100. ISCHNURGES.

Ischnurges Led. Wien. Ent. Mon. 1863, p. 418.

Nesolocha Meyr. Trans. Ent. Soc. 1886, p. 239.

Rhectothyris Warr. A. M. N. H. (6) vi. p. 474 (1890).

Stenochora Warr. A. M. N. H. (6) ix. p. 298 (1892).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair;

Fig. 100.



Ischnurges gratiosalis, ♂. †. (From Moths Ind. vol. iv.)

maxillary palpi filiform; frons flat and oblique; antennæ annulate; tibiæ with the outer spurs about half the length of inner. Fore wing with veins 3, 4, 5 from near angle of cell; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

(1)†ISCHNURGES GRATIOSALIS Wlk. xvii. 357; Hmps. Ill. Het. ix. pl. 173. f. 12. China; India; Ceylon; Borneo.
†*Asopia roridalis* Wlk. xvii. 371.

(2) ISCHNURGES ROSEA Warr. A. M. N. H. (6) xvii. p. 142. Assam.

(3) ISCHNURGES LANCINALIS Guen. Delt. & Pyr. p. 169. S. Africa.
Botys expeditalis Led. Wien. Ent. Mon. 1863, p. 372, pl. 9. f. 15.

(4)†ISCHNURGES PERPULCHRALIS, n. sp. (1898, Plate L. fig. 24.)

♀. Head bright pink, the vertex yellow; thorax bright yellow, shoulders with pink stripes; pectus white; abdomen yellow, the last four segments pink. Fore wing bright yellow, the costa and terminal third bright pink; an antemedial pink line angled below the cell and a spot at middle of cell, both sometimes almost entirely obsolete; the inner edge of terminal pink area sinuous; a large yellow patch beyond the cell between veins 7 and 2, its inner edge encroached on by pink scales above and below middle. Hind wing white; the terminal area yellowish suffused with pink scales, most widely at vein 2.

Hab. Mexico, Orizaba (*Schaus*). *Exp.* 22 mm.

(5)†ISCHNURGES RUFALIS Hmps. Ill. Het. ix. p. 163, pl. 172. f. 28. Ceylon.

(6)†ISCHNURGES ARGENTALIS Hmps. Ill. Het. ix. p. 163, pl. 173. f. 16. Ceylon.

(7)†ISCHNURGES LUTEOMARGINALIS Hmps. Ill. Het. viii. p. 134, pl. 155. f. 18. S. India.

(8)†ISCHNURGES ANGUSTALIS Hmps. Ill. Het. ix. p. 173, pl. 172. f. 20. Ceylon; Burma.

Type. (9) ISCHNURGES ILLUSTRALIS Led. Wien. Ent. Mon. 1863, p. 418, pl. 15. f. 12. New Guinea; Australia.
Nesolocha autolitha Meyr. Trans. Ent. Soc. 1886, p. 240.

(10)†ISCHNURGES DISCOPHORALIS, n. sp.

Black-brown with a slight yellowish gloss; pectus and ventral surface of abdomen white. Fore wing with the costal area purplish; a semihyaline yellow spot below origin of vein 2; a dark discoidal spot with yellow point before it and large yellow lunulate patch beyond it between veins 7 and 2 running inwards below end of cell; cilia whitish towards tornus. Hind wing pale

semihyaline yellow, with black discoidal spot: the terminal area fuscous, with its inner edge slightly indented between veins 5 and 2; cilia whitish at tips.

Hab. Orizaba, Mexico (*Schaus*). *Exp.* 20 mm.

Genus 101. HYALOBATHRA.

Hyalobathra Meyr. Trans. Ent. Soc. 1886, p. 445.

Isocentris Meyr. Trans. Ent. Soc. 1887, p. 232.

Leucocraspeda Warr. A. M. N. H. (6) vi. p. 475 (1890).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons flat and oblique; antennæ ciliated; tibiæ with the spurs long and nearly equal. Fore wing with veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 101.



Hyalobathra filalis, ♂. †. (From Moths Ind. vol. iv.)

SECT. I. (*Hyalobathra*). Hind wing of male with a hyaline fovea in base of cell.

Type. (1) HYALOBATHRA ARCHELEUCA Meyr. Trans. Ent. Soc. 1885, p. 445.

Burma; Perak; Borneo;

Queensland; New South Wales.
Isocentris unicolor Warr. A. M. N. H. (6) xvi. p. 472.

SECT. II. (*Isocentris*). Hind wing of male without fovea in cell.

(2)†HYALOBATHRA PHENICOZONA Hmps. Moths Ind. iv. p. 385.

Assam.

(3) HYALOBATHRA FILALIS Guen. Delt. & Pyr. p. 204; Snell. Tijd. v. Ent. 1883, pl. 7. f. 11.

Mauritius; Oriental region to Australia.

†*Endotricha rhodophilalis* Wlk. xxxiv. 1311; Moore, Lep. Ceyl. iii. pl. 178. f. 13.

†*Botys amœnalis* Wlk. xxxiv. 1445.

„ *auralis* Snell. Tijd. v. Ent. 1872, p. 90, pl. 7. ff. 9, 10.

†*Samea dives* Butl. P. Z. S. 1880, p. 682.

(4) HYALOBATHRA EQUALIS Led. Wien. Ent. Mon. 1863, p. 468, pl. 10. f. 3.

India, Ceylon, & Burma;

†*Isocentris undulilinea* Hmps. Ill. Het.

Celebes.

viii. p. 132, pl. 154. f. 21.

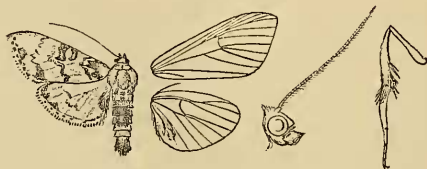
- (5) *HYALOBATHRA CÆNOSTOLALIS* Snell. Trans. Ent. Soc. 1880, p. 582. N.E. & S. India; Burma.
†*Leucocraspeda udeoides* Hmps. Ill. Het. viii. p. 134, pl. 155. f. 17.
- (6)†*HYALOBATHRA ILLECTALIS* Wlk. xviii. 658; Hmps. Ill. Het. ix. pl. 173. f. 9. N.E. India; Ceylon; Burma; Borneo; Celebes.
Botys albofimbrialis Snell. Tijd. v. Ent. 1883, p. 128.
,, *niveivilialis* Snell. Midd.-Sum., iv. Lep. p. 64.
- (7)†*HYALOBATHRA OPHELTISALIS* Wlk. xix. 1010. India; Burma.
†*Hedylepta contubernalis* Moore, Lep. Atk. p. 208.
- (8) *HYALOBATHRA MINTOSALIS* Guen. Delt. & Pyr. p. 362.
†*Ebulea europalis* Wlk. xviii. 749. India, Ceylon, & Burma.
† ,, *orseisalis* Wlk. xviii. 749.
- (9) *HYALOBATHRA MINIALIS* Warr. A. M. N. H. (6) xvi. p. 477. Queensland.
- (10)**HYALOBATHRA LÆTALIS* Stgr. List, xxxiii. Europe.

Genus 102. AZOCHIS.

Azochis Wlk. xviii. 542 (1859).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons oblique; antennæ of male ciliated; tibiæ with the outer spurs about one-third length of inner; male with tufts of hair on extremity of hind tibiæ and 1st joint of tarsus; abdomen long, with large anal tuft. Fore wing rather long and narrow; veins 3, 4, 5 from angle of cell; 7 curved and closely approximated to 8, 9 for nearly half its length. Hind wing of male with the membrane above tornus contorted and clothed with coarse black hair above and below; the cell short; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 shortly stalked, 7 anastomosing with 8.

Fig. 102.

*Azochis gripusalis*, ♂. ♀.

- (1)**AZOCHIS MACTALIS* Feld. Reis. Nov. pl. 135. f. 50. Fiji.
- Type.* (2)†*AZOCHIS GRIPUSALIS*, Wlk. xviii. 542. Brazil.
Botys saniosalis Led. Wien. Ent. Mon. 1863, p. 371, pl. 9. f. 11.
- (3)†*AZOCHIS RUFIFRONTALIS* Hmps. A. M. N. H. (6) xvi. p. 339. W. Indies.

Genus 103. CROCIDOPHORA.

Crocidophora Led. Wien. Ent. Mon. 1863, p. 386.

Stenophyes Led. Wien. Ent. Mon. 1863, p. 388.

Circobotys Butl. Ill. Het. iii. p. 77 (1879).

Chobera Moore, Lep. Atk. p. 219 (1888).

Tanaophysa Warr. A. M. N. H. (6) ix. p. 389 (1892).

Mimocomma Warr. A. M. N. H. (6) xvi. p. 473 (1895).

Monocrocis, Warr. A. M. N. H. (6) xvi. p. 475.

Polychorista Warr. A. M. N. H. (6) xviii. p. 109 (1896).

Palpi porrect and triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons flat and oblique; antennæ of male nearly as long as the fore wing and minutely ciliated; hind tibiæ with the outer spurs minute; abdomen of male long, the claspers and anal tuft large. Fore wing more or less produced at apex, the outer margin oblique; veins 3 and 5 from near angle of cell; 7 straight and well separated from 8, 9. Hind wing with the cell short; veins 4, 5 approximated for a short distance; 6, 7 stalked, 7 anastomosing strongly with 8.

Fig. 103.



Crocidophora ptyophora, ♂. $\frac{1}{2}$. (From Moths Ind. vol. iv.)

SECT. I. (*Polychorista*). Antennæ of male with a curved tooth of scales from basal joint, the basal part of shaft slightly thickened and contorted; hind wing with the base of costa expanded into a large folded lobe.

(1)†CROCIDOPHORA CALVATALIS Swinh. Trans. Ent. Soc. 1890, p. 275. Burma.

SECT. II. Antennæ of male slightly knotted and contorted at one-fifth from base.

(2)†CROCIDOPHORA EPICROCALIS Swinh. Trans. Ent. Soc. 1890, p. 275. S. India; Burma.

†*Circobotys marginalis* Hmps. Ill. Het. viii. p. 133, pl. 155. f. 1 (♂).

SECT. III. (*Mimocomma*). Antennæ of male with the base of shaft excised and a tuft of hair beyond the excision.

(3) CROCIDOPHORA FULVIMARGO Warr. A. M. N. H. (6) xvi. p. 473. N.E. India; Burma.

SECT. IV. Antennæ of male normal.

A. Retinaculum of male formed by a very large fan of leaden-coloured scales from below median nervure, the median nervure bent upwards.

a. (*Crocidophora*). Fore wing of male with a fan of leaden-coloured scales beyond upper angle of cell and vein 7 bent downwards.

(4)†CROCIDOPHORA PTYOPHORA Hmps. Moths Ind. iv. p. 389.
N.E. India; Burma.

(5) CROCIDOPHORA AMENALIS Snell. Trans. Ent. Soc. 1890,
p. 598. Sikhim.

(6)†CROCIDOPHORA LIMBOLALIS Moore, P. Z. S. 1877, p. 615.
N.E. India; Burma; Andamans.

(7)*CROCIDOPHORA CURVILINEALIS, n. sp.

♂. Pale yellow; sides of head and shoulders rufous; abdomen fulvous above and with white dorsal segmental lines. Fore wing with the costal area fulvous; a curved antemedial line; a discoidal patch and lunule; the postmedial line excurved and punctiform from below costa to vein 3, angled inwards above veins 2 and 1, and joined by a streak on inner margin to the antemedial line; a purplish-fuscous band just before termen; termen and cilia yellow with a series of dark points. Hind wing suffused with fuscous to beyond middle, its outer edge angled at vein 2; an oblique purplish-fuscous band from costa before apex to termen at middle; a terminal series of points.

Hab. Khâsis. *Exp.* 24 mm. Type in Coll. Rothschild.

(8) CROCIDOPHORA FULVIDALIS Warr. A. M. N. H. (6) xvi.
p. 475. Assam.
Lepidoptaga uniformis Warr. A. M. N. H. (6) xvi. p. 476.

(9)†CROCIDOPHORA SERRATISSIMALIS Zell. Verh. z.-b. Wien, 1872,
p. 521. U.S.A.
†*Botis subdentalis* Grote, Bull. Buff. Soc. i. p. 173.

(10) CROCIDOPHORA PUSTULIFERALIS Led. Wien. Ent. Mon. 1863,
p. 386, pl. 12. f. 11. U.S.A.

Type. (11) CROCIDOPHORA TUBERCULALIS Led. Wien. Ent. Mon. 1863,
p. 386, pl. 12. f. 9. U.S.A.

(12) CROCIDOPHORA MULTIDENTALIS Warr. A. M. N. H. (6) xvi.
p. 476. Assam.

b. (*Monocrocis*). Fore wing of male with a small post-medial glandular swelling on costa and an elongate groove of almost unscaled ribbed membrane above vein 7.

(13) CROCIDOPHORA LUTUSALIS Snell. Trans. Ent. Soc. 1890,
p. 596. N.E. & W. India.

- (14) CROCIDOPHORA FLAVOFASCIATA Moore, Lep. Atk. p. 223,
pl. 7. f. 19. N.E. India.
c. Fore wing of male without sexual characters beyond the
cell.
- (15) CROCIDOPHORA FASCIATA Moore, Lep. Atk. p. 223, pl. 7.
f. 20. N.E. India.
- (16)†CROCIDOPHORA DISTINCTALIS Swinh. A. M. N. H. (6) xiv.
p. 144. Assam.
- (17)†CROCIDOPHORA EVENORALIS Wlk. Cat. xix. 1012, 1015.
Japan; China; Burma.
Botis mandarinalis Leech, Entom. 1889, p. 68, pl. 3. f. 14.
- (18)†CROCIDOPHORA HABISALIS Wlk. xviii. 702. Borneo.
†*Rhodaria mævialis* Wlk. xix. 925.
- (19)†CROCIDOPHORA DISCOLORATA Swinh. A. M. N. H. (6) xiv.
p. 144. Assam.
- (20)†CROCIDOPHORA PALLIDULALIS Swinh. A. M. N. H. (6) xiv.
p. 141. Assam.
- B. (*Circobotys*). Retinaculum of male normal.
- a. Fore wing of male with a large fovea below base of cell,
but without fan of scales.
- (21) CROCIDOPHORA HETEROGENALIS Brem. Lep. Ost-Sib. p. 70,
pl. 6. f. 11. Amur; Japan.
b. (*Tanaophysa*). Fore wing of male with a streak of
ribbed hyaline membrane above vein 7, no fovea
below the cell.
- (22)†CROCIDOPHORA ADORNATALIS Warr. A. M. N. H. (6) ix.
p. 389. Brazil.
c. (*Stenophyes*). Fore wing of male without secondary
sexual characters.
a'. Fore wing produced and subfalcate.
- (23)†CROCIDOPHORA NYCTERINA Butl. Ill. Het. iii. p. 77, pl. 59.
f. 14. Japan.
- (24) CROCIDOPHORA LIMBATA Moore, Lep. Atk. p. 220, pl. 7.
f. 24. N.E. India.
- (25) CROCIDOPHORA AURIMARGO Warr. A. M. N. H. (6) xviii.
p. 109. Assam.
- (26) CROCIDOPHORA GLADIALIS Leech, Entom. xxii. p. 67, pl. 3.
ff. 5, 15. China.
- (27) CROCIDOPHORA PALLIDA Moore, Lep. Atk. p. 220.
N.E. India.

b'. Fore wing less produced and not subfalcate.

- (28)†CROCIDOPHORA SINISALIS Wlk. xviii. 635. W. Africa ;
Punjab.
(29)†CROCIDOPHORA FUSCALIS Hmps. Ill. Het. viii. p. 133,
pl. 154. f. 14. S. India.
(30) CROCIDOPHORA STENOPHILALIS Wlk. xxxiv. 1407.
S. India ; Cambodia.
†*Circobotys marginalis* Hmps. Ill. Het. viii. p. 133, pl. 155.
f. 9 (♀).
(31)†CROCIDOPHORA ACUTANGULALIS Swinh. A. M. N. H. (6) xiv.
p. 143. N.E. India.
(32) CROCIDOPHORA HURONALIS Guen. Delt. & Pyr. p. 198.
U.S.A. ; W. Indies ; S. Amer.
†*Samea zinghalis* Wlk. xvii. 355.
†*Phalangiodes serinalis* Wlk. xvii. 468.

Genus 104. MARUCA.

Crochiphora Geyer, Hübn. Samml. Exot. Schmett. iv. 4, p. 12
(1832), non descr.

Maruca Wlk. xviii. 540 (1859).

Siriocauta Led. Wien. Ent. Mon. 1863, p. 424.

Palpi porrect and triangularly scaled, the 3rd joint hidden by hair ; maxillary palpi very slightly dilated with scales ; frons flat and oblique ; antennæ slightly longer than fore wing and annulated ; legs long, tibiæ with the outer spurs about half the length of inner ; abdomen long. Fore wing with vein 3 from angle of cell ; 4, 5 closely approximated for a short distance ; 7 curved and approximated to 8, 9, to which 10 also is approximated. Hind wing with vein 3 from angle of cell, which is about half the length of wing ; 4, 5 closely approximated for a short distance ; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 104.



Maruca testulalis, ♂. †. (From Moths Ind. vol. iv.)

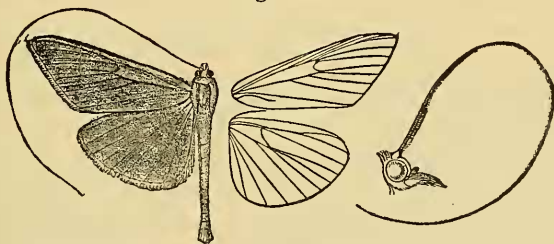
- Type.* (1) MARUCA TESTULALIS Geyer, Hübn. Samml. Exot. Schmett. iv.
4, p. 12, ff. 629, 630. Tropical zone.
Hydrocampa aquatilis Boisd., Guér.-Mén. Icon. Règne Anim.
pl. 90. f. 9.
(2) MARUCA AMBOINALIS Feld. Reis. Nov. pl. 135. f. 24.
India ; Burma ; Borneo ; Amboina.
Siriocauta similialis Snell. Midd.-Sum., iv. Lep. p. 72.

Genus 105. ADELOÏDES.

Adeloïdes Warr. A. M. N. H. (6) ix. p. 299 (1892).

Palpi porrect, rather long and triangularly scaled, the 3rd joint hidden by hair; maxillary palpi dilated with scales; frons rounded; antennæ minutely ciliated, at least one and a half times length of fore wing, the basal joint dilated in both sexes; the vertex of head clothed with rough hair; abdomen of male extending far beyond the anal angle of hind wing, the claspers large and covered by the large anal tuft; tibiæ with the outer spurs minute. Fore wing of male narrow and produced at apex; vein 3 from well before angle of cell; 4, 5 from angle; 7 nearly straight and well separated from 8, 9. Hind wing of male very ample; the cell short; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 105.



Adeloïdes cinerealis, ♂. †. (From Moths Ind. vol. iv.)

Type. (1)†ADELOÏDES CINEREALIS Moore, P. Z. S. 1867, p. 94. Sikhim.

(2)†ADELOÏDES GLAUOPTERA Hmps. Moths Ind. iv. p. 395.
Bhutan.

Genus 106. TETRIDIA.

Tetridia Warr. A. M. N. H. (6) vi. p. 477 (1890).

Palpi porrect and triangularly scaled, the 3rd joint hidden by

Fig. 106.



Tetridia caletoralis, ♂. †. (From Moths Ind. vol. iv.)

hair; maxillary palpi dilated with scales; frons flat and oblique;

antennæ of male minutely ciliated and considerably longer than fore wing, of female about the length of fore wing; fore and mid tibiæ of male fringed with hair on outer side, the thorax with tufts of hair below near mid legs; abdomen of male with the anal tuft long. Fore wing with the apex produced, the outer margin oblique; vein 3 from near angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9, to which 10 is approximated. Hind wing with the cell short, especially in male; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8; 6 in male curved downwards.

Type. †*TETRIDIA CALETORALIS* Wlk. xviii. 651. N.E. India: Ceylon; Burma; Malayan subregion.

Botys phænnisalis Wlk. xviii. 684.

† „ *vinacealis* Moore, P. Z. S. 1877, p. 619.

Polythlipta albicaudalis Snell. Tijd. v. Ent. 1880, p. 221, & 1883, pl. 8. f. 7.

Genus 107. POLYGRAMMODES.

Polygrammodes Guen. Delt. & Pyr. p. 318 (1854).

Pachynoa Led. Wien. Ent. Mon. 1863, p. 391.

Aphytoceros Meyr. Trans. Ent. Soc. 1884, p. 320.

Pitacanda Moore, Lep. Ceyl. iii. p. 334 (1887).

Palpi porrect, dilated with scales above and enclosing a hollow in male, the 3rd joint hidden by hair; maxillary palpi minute and filiform; proboscis somewhat aborted; frons rounded; build stout; fore tibiæ and tarsi usually fringed with hair; mid tibiæ fringed with hair; hind tibiæ with a tuft of hair on outer side near base; the spurs rather short. Fore wing produced at apex, the outer margin oblique, the inner margin lobed at middle; vein 1*a* forming a fork with 1*b*; 3 from angle of cell; 4, 5 approximated for a short distance; 7 curved and closely approximated to 8, 9, to which 10 also is approximated. Hind wing with vein 3 from angle of cell; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing strongly with 8.

Fig. 107.



Polygrammodes thoosalis, ♂. †. (From Moths Ind. vol. iv.)

SECT. I. Antennæ of male bipectinate, with long branches.

(1)**POLYGRAMMODES MÆRULALIS* Wlk. xix. 1000.

Borneo.

SECT. II. (*Pachynoa*). Antennæ of male minutely serrate on upper side, pectinate on lower side.

A. Antennæ of male with the branches on lower side long.

(2)†POLYGRAMMODES PURPURALIS Wlk. xxxiv. 1482. Java.
Pachynoa ledereri Snell. Tijds. v. Ent. xxxv. p. 164, pl. x. f. 8.

(3)*POLYGRAMMODES HYALOSTICTA, n. sp.

♂. Head, thorax, and abdomen purplish red-brown, the last ochreous towards extremity; palpi at base, pectus, and ventral surface of abdomen white. Fore wing bright yellow; the basal third purplish red, conjoined on costal area to a triangular patch extending to apex and down to vein 1 and edged with red; a quadrate hyaline spot in end of cell; a subterminal series of red points. Hind wing bright yellow, the basal third purplish red with oblique outer edge; an irregularly waved postmedial red line between veins 7 and 2, with red point above vein 5; a waved sinuous subterminal red line.

Hab. Bunguram, Natuna Is. (*Hose*). *Exp.* 26 mm. Type in Coll. Rothschild.

(4) POLYGRAMMODES PECTINICORNALIS Guen. Delt. & Pyr. p. 326.
N. & W. India.

(5)†POLYGRAMMODES FUSCITALIS Hmps. Ill. Het. viii. p. 133,
pl. 155. f. 2. S. India.

(6) POLYGRAMMODES HYPHALIS Hmps. Moths Ind. iv. p. 398.
Sikhim.

B. Antennæ of male with the branches on lower side short.

a. Hind tibiæ of male strongly dilated before middle and at extremity, the terminal spurs absent; fore wing with a large shallow fovea on vein 1 above the lobe of inner margin; hind wing with a vesicular lobe clothed with hair on inner margin.

(7)†POLYGRAMMODES THOOSALIS Wlk. xviii. p. 737; Moore, P. Z. S. 1877, pl. 60. f. 16. N.E. India; Malayan subregion.
Pachynoa walkeri Led. Wien. Ent. Mon. 1863, p. 391, pl. 13. f. 2.

b. Hind tibiæ of male and wings normal.

(8) POLYGRAMMODES SABELIALIS Guen. Delt. & Pyr. p. 326.
†*Botys elycealis* Wlk. xix. 995. E. Africa; India; Burma.
Pachynoa obstructalis Wlk. xxxiv. 148. Andamans; Amoy.

(9)†POLYGRAMMODES LIMITALIS, n. sp.

♂. Differs from *purpuralis* in its small size; the basal red area of both wings small; the discal expansion of the costal red fascia on fore wing small.

Hab. Sarawak, Borneo (*Wallace*). *Exp.* 30 mm.

- (10) POLYGRAMMODES SPILOSOMOIDES Moore, Lep. Ceyl. iii. p. 324,
pl. 183. f. 10. India; Ceylon.
- (11)†POLYGRAMMODES MINEUSALIS Wlk. xvii. 481 (♀). Burma.
- (12)†POLYGRAMMODES EFFUSALIS Wlk. xxxiv. 1445. Java.

SECT. III. Antennæ of male serrate and fasciculate.

- (13)†POLYGRAMMODES NONAGRIALIS, n. sp.

♂. Pale ochreous grey-brown; palpi fuscous at sides. Fore wing with fuscous discoidal lunule; traces of curved postmedial series of fuscous points in the interspaces, and of fuscous subterminal streaks towards apex. Hind wing whitish, tinged with brownish towards termen.

Hab. Callao, Peru (*J. J. Walker*). *Exp.* 40 mm.

SECT. IV. (*Aphytoceros*). Antennæ of male ciliated.

A. Tibiæ fringed with hair.

- (14)†POLYGRAMMODES SPISSALIS Guen. Delt. & Pyr. p. 327.
Assam; Java.
- (15)†POLYGRAMMODES GROSSALIS Guen. Delt. & Pyr. p. 327.
Java.

B. Tibiæ smoothly scaled.

- (16)†POLYGRAMMODES PHYLLOPHILA Butl. A. M. N. H. (5) ii.
p. 296 (1878). Madagascar.
- (17) POLYGRAMMODES TAPSUSALIS Wlk. xviii. 697. Borneo;
Pulo Laut.
- (18) POLYGRAMMODES PONDERALIS Guen. Delt. & Pyr. p. 328, pl. 8.
f. 10. Brazil.
Botys humeralis Wlk. xxxiv. 1397.
- (19) POLYGRAMMODES HERCULES Feld. Reis. Nov. pl. 135. f. 49.
Centr. Amer.
- (20)*POLYGRAMMODES RUFINALIS, n. sp.

♂. Brown with a pinkish tinge; palpi below, pectus, and ventral surface of abdomen whitish. Fore wing with indistinct dark antemedial line, oblique from costa to below median nervure, where it is angled; a small quadrate hyaline spot in end of cell and wedge-shaped spot beyond it; a dentate postmedial line bent outwards between veins 5 and 2, the area in its sinus and between it and the dentate subterminal line brick-red. Hind wing with quadrate hyaline spot in cell and wedge-shaped spot beyond it; the area from middle to terminal band brick-red; the postmedial line bent outwards and strongly dentate between veins 5 and 2.

Underside largely suffused with white; prominent black spots in cell and on discocellulars.

Hab. Venezuela, Palma Sol. *Exp.* 46 mm. Type in Coll. Rothschild.

(21)†POLYGRAMMODES LUCUSALIS Wlk. xviii. 722. Australia.
Botys histrionalis Led. Wien. Ent. Mon. 1863, p. 371, pl. 9. f. 13.

(22)*POLYGRAMMODES SANGUINALIS Druce, Biol. Centr.-Am., Het. ii. p. 218, pl. 61. f. 7. Mexico; Centr. Amer.

(23) POLYGRAMMODES OSTREALIS Guen. Delt. & Pyr. p. 327. W. Indies; S. Amer.

(24) POLYGRAMMODES HIRTALIS Guen. Delt. & Pyr. p. 344.
†*Botys lybialis* Wlk. xviii. 624. Florida; C. & S. Amer.
† „ *amatalis* Wlk. xviii. 625.
†*Botis capitalis* Grote, Bull. U. S. Geol. Surv. vi. p. 272.

Type. (25)*POLYGRAMMODES RUNICALIS Guen. Delt. & Pyr. p. 318, pl. 5. f. 7. Brazil.

(26)*POLYGRAMMODES SENAHUENSIS Druce, Biol. Centr.-Am., Het. ii. p. 214, pl. 61. f. 1. Guatemala.

(27)†POLYGRAMMODES FARINALIS, n. sp.

White slightly suffused with pale fuscous brown. Fore wing with brown costal fascia; an obliquely sinuous antemedial line; a spot in cell; minutely waved and slightly curved medial and post-medial lines, the latter slightly bent outwards at vein 5; a crenulate submarginal line. Hind wing pure white, with traces of curved postmedial line and marginal series of specks; underside with prominent postmedial line and marginal band on costal half.

Hab. Brazil (*Jones*). *Exp.* 38 mm.

Auctorum.

Pachynoa cresus Druce, Biol. Centr.-Am., Het. ii. p. 219, pl. 61. f. 8. Guatemala.

Genus 108. PARBATTIA.

Parbattia Moore, Lep. Atk. p. 225 (1887).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair;

Fig. 108.



Parbattia vialis, ♂. †. (From Moths Ind. vol. iv.)

maxillary palpi filiform; frons rounded; antennæ of male minutely

ciliated; tibiae with the outer spurs about two-thirds length of inner. Fore wing with the apex produced, the outer margin oblique; vein 3 from near angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9; male with a fovea below the cell at origin of vein 2. Hind wing with the costa lobed and fringed with hair near base; the cell extremely short and the disco-cellulars produced for a long way along median nervure so that veins 3, 4, 5 appear to be stalked; 6, 7 from upper angle, 7 anastomosing strongly with 8.

Type. PARBATTIA VIALIS Moore, Lep. Atk. p. 225, pl. 7. f. 30.

N.E. India.

Genus 109. DISCOTHYRIS.

Discothyris Warr. A. M. N. H. (6) xvi. p. 473 (1895).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons rounded; antennae of male ciliated; tibiae with the outer spurs about half the length of inner. Fore wing with the costa arched towards apex, which is acute; the outer margin angled at vein 4; vein 3 from close to angle of cell; 4, 5 from angle; 7 curved and approximated for a short distance to 8, 9, to which 10 also is approximated. Hind wing with the outer margin produced to a point at vein 6 and excurved at middle; vein 3 from angle of cell; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8; a large tuft of hair on median nervure at lower angle of cell.

Fig. 109.



Discothyris ferruginata, ♂. †. (From Moths Ind. vol. iv.)

Type. (1)†DISCOTHYRIS FERRUGINATA Moore, Lep. Atk. p. 209. Sikhim.

(2)*DISCOTHYRIS VESTIGIALIS Snell. Trans. Ent. Soc. 1890, p. 628. Sikhim.

(3) DISCOTHYRIS MEGALOPHALIS, n. sp.

♂. Dull ferruginous brown; palpi white below at base. Fore wing with disco-cellular black lunule; a postmedial series of black specks, most prominent towards costa and forming a larger spot on costa, excurved from below costa to vein 4, then inwardly oblique. Hind wing with the tuft very large, extending along vein 2 and blackish, a postmedial sinuous black line somewhat maculate between veins 5 and 2; both wings with black line at base of cilia.

Hab. Khásis. *Exp.* 18 mm. Type in Coll. Rothschild.

Genus 110. NOMOPHILA.

Nomophila Hübn. Verz. p. 368 (1827).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons rounded; antennæ of male with long cilia; tibiæ with the outer spurs about half the length of inner; abdomen of male with lateral tufts on the terminal segments. Fore wing long and narrow; the apex rounded; vein 3 from well before angle of cell; 4, 5 from angle; 7 curved and approximated to 8, 9. Hind wing ample; veins 4, 5 closely approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 110.



Nomophila noctuella, ♂. †. (From Moths Ind. vol. iv.)

- Type.* (1) *NOMOPHILA NOCTUELLA* Schiff. Wien. Verz. p. 136. Universally distributed.
Pyralis hybridalis Hübn. Pyr. ff. 114, 184.
 † *Nephopteryx indistinctalis* Wlk. xxvii. 59.
Botys helvolalis Maasen, Stübel's Reise, p. 170, f. 26.

(2) † *NOMOPHILA ASTIGMALIS*, n. sp.

Grey-brown; palpi white at base. Fore wing with the costal area suffused with fuscous; the antemedial line represented by obscure points; a dark point in cell and slight discoidal lunule; dark points on vein 2 near origin and middle of vein 1; the postmedial line represented by dark points on the veins excurved below costa. Hind wing pale yellowish.

Hab. Mexico, Orizaba (*Schaus*). *Exp.* 26 mm.

Auctorum.

- Nomophila triticalis* Berg, Deutsche Ent. Zeit. 1875, p. 155. Argentina.
 ,, *moluccana* Pag. J.B. Nass. Ver. xxxvii. p. 269. Amboina.

Genus 111. PACHYZANCLA.

- Pachyzancla* Meyr. Trans. Ent. Soc. 1884, p. 315.
Acharana Moore, Lep. Ceyl. iii. p. 285 (1885).
Rhctocraspeda Warr. A. M. N. H. (6) ix. p. 439 (1892).
Ptiloptila Swinh. A. M. N. H. (6) xiv. p. 142 (1894).
Pantæocome Warr. A. M. N. H. (6) xviii. p. 173 (1896).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons rounded; antennæ of male ciliated;

tibiæ with the outer spurs half the length of inner. Fore wing with veins 3, 4, 5 from angle of cell; 7 curved and approximated to 8, 9, to which 10 also is approximated. Hind wing with vein 3 from angle of cell; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 111.



Pachyzancla licarsisalis, ♂. †. (From Moths Ind. vol. iv.)

SECT. I. Mid femora of male immensely dilated and clothed with large smooth scales on inner side.

A. Fore wing of male with the basal half of costa below fringed with long thick black hair; fore legs clothed with rough hair near the femoro-tibial joint.

- (1) † *PACHYZANCLA LICARSISALIS* Wlk. xviii. 686. Syria; Oriental
 † *Botys pharavalis* Wlk. xviii. 725. and Australian regions.
 † „ *immundalis* Wlk. xxxiv. 1448.
Entephria fumidalis Wlk. xxxiv. 1486.
Botys serotinalis Joannis, Ann. Soc. Ent. Fr. (6) viii. p. 272,
 pl. 6. f. 2.

B. (*Acharana*). Fore wing of male with no fringe of hair on underside of costa; fore legs normal.

- (2) *PACHYZANCLA PHÆOPTERALIS* Guen. Delt. & Pyr. p. 349.
 The Tropical zone.
Botys vecordalis Guen. Delt. & Pyr. p. 348.
 † „ *vestalis* Wlk. xviii. 579.
 † „ *otreusalis* Wlk. xviii. 637; Moore, Lep. Ceyl. iii. pl. 180.
 f. 11.
 † „ *triarialis* Wlk. xviii. 639.
 † „ *neloalis* Wlk. xviii. 643.
 † „ *abstrusalis* Wlk. xviii. 663.
 „ *additalis* Wlk. Trans. Ent. Soc. (3) i. 126.
 „ *cellatalis* Wlk. xxxiv. 1400.
 „ *inhonestalis* Wlk. xxxiv. 1433.
 „ *plebejalis* Led. Wien. Ent. Mon. 1873, p. 373.
 † *Acharana descripta* Warr. A. M. N. H. (6) ix. p. 436.

SECT. II. Mid tibiæ of male dilated, widest at middle and deeply grooved in front.

- (3) † *PACHYZANCLA OLIVESCENS* Warr. A. M. N. H. (6) ix. p. 436.
 Ecuador.

SECT. III. (*Pantœcome*). Hind femora of male fringed with long thick hair, the tibiæ immensely dilated and thickly fringed with large flattened scales.

- (4) PACHYZANCLA DILATATIPES Wlk. xxxiv. 1419. Sumbawa ;
Mysol ; Tenimber.
Pantœcome deformis Warr. A. M. N. H. (6) xviii. p. 173.

SECT. IV. Legs of male normal.

A. Both wings of male with the basal half clothed above with thick woolly hair ; fore wing with thick flocculent whitish hair on basal half of costa ; patagia fringed with long curved hair and extending beyond metathorax.

- (5)†PACHYZANCLA SEMILANIATA Hmpsn. A. M. N. H. (6) xvi.
p. 342. W. Indies.

B. Fore wing of male with the costa fringed below with long black hair at base.

- (6)†PACHYZANCLA NIGRICORNALIS Swinh. A. M. N. H. (6) xiv.
p. 142. Assam.

C. Fore wing of male with a fovea in base of cell, covered on underside by a fan of large scales from subcostal nervure, and the nervures distorted.

- (7)†PACHYZANCLA DESMIOIDES, n. sp.

Purplish black ; palpi below, pectus, legs, and ventral surface of abdomen white ; male with the genital tufts white. Fore wing with irregular white foveal spot in cell, a small round or bar-shaped spot in end of cell ; a band beyond the cell between veins 3 and 7, expanding and dentate between veins 3 and 5 ; cilia white above tornus. Hind wing with transverse white spot below middle of cell ; a band beyond the cell between veins 3 and 7, expanding and dentate between veins 3 and 5.

One female has the white markings considerably reduced.

Hab. Fergusson I., N. Guinea (*Meek*). *Exp.* 30 mm.

D. (*Rhetectocraspeda*). Hind wing of male with the inner area clothed with long hair, the anal angle lobed and the membrane contorted.

- (8)†PACHYZANCLA PERIUSALIS Wlk. xviii. 664. U.S.A. ; Brazil.

E. Hind wing of male with the inner margin fringed with long hair ; a tuft of very long hair near base.

- (9)†PACHYZANCLA MALEDICTA Warr. A. M. N. H. (6) ix. p. 435.
Sumbawa ; Pitcairn Island.

F. Wings of male normal.

a. Patagia of male fringed with long hair extending far beyond metathorax.

a'. Antennæ of male with small scale-teeth on base of shaft above.

(10)†PACHYZANCLA PACHYCERA, n. sp.

Fuscous brown; palpi at base, pectus, and ventral surface of abdomen white, the second segment of abdomen with subdorsal black points. Fore wing with the costa purplish fuscous; an antemedial black line incurved to costa; a point in cell and discoidal lunule; the postmedial line oblique from costa to vein 5, dentate to vein 2, then retracted to below angle of cell. Hind wing with discoidal point; the postmedial line bent outwards and dentate between veins 5 and 2; both wings with dark terminal line; cilia pale, with a fuscous line through them.

Hab. Orizaba, Mexico (*Schaus*). *Exp.* 32 mm.

b'. Antennæ of male with a curved tuft of hair on basal joint, the base of shaft excised.

(11)†PACHYZANCLA COPTOBASALIS Hmps. Journ. Bomb. Nat. Hist. Soc. ined. Sikkim.

c'. Antennæ of male normal.

Type. (12)†PACHYZANCLA STULTALIS Wlk. xviii. 669. Oriental region
Botys jasiusalis Wlk. xviii. 708. to Celebes & Australia.
 † „ *basistrigalis* Wlk. xxxiv. 1433.

b. Patagia of male not extending beyond metathorax.

(13)†PACHYZANCLA BIPUNCTALIS Fabr. Ent. Syst. iii. 2, p. 227.

Neotropical, Nearctic, Ethiopian, &

†*Pachyzancla egrotalis* Zell. Lep. Caffr. p. 39. Oriental regions.

†*Botys mutualis* Zell. Lep. Caffr. p. 40.

„ *veminalis* Guen. Delt. & Pyr. p. 348.

„ *detritalis* Guen. Delt. & Pyr. p. 347, pl. 4. f. 10.

† „ *lycialis* Wlk. xviii. 572.

† „ *philealis* Wlk. xviii. 596.

† „ *admensalis* Wlk. xviii. 652; Hmps. Ill. Het. ix. pl. 173. f. 10.

† „ *basalis* Wlk. xxxiv. 1404.

† „ *apertalis* Wlk. xxxiv. 1450.

† „ *repetitalis* Grote, New Check-List, p. 53.

†*Acharana rudis* Warr. A. M. N. H. (6) ix. p. 435.

† „ *elongalis* Warr. A. M. N. H. (6) ix. p. 437.

† „ *fuscescens* Warr. A. M. N. H. (6) ix. p. 437.

† „ *simplex* Warr. A. M. N. H. (6) ix. p. 436.

† „ *subalbescens* Swinh. A. M. N. H. (6) xiv. p. 147.

„ *honestalis* Warr. A. M. N. H. (6) xvii. p. 97.

Hedylepta ochrifuscalis Warr. A. M. N. H. (6) xvii. p. 98.

Acharana subcenscens Warr. A. M. N. H. (6) xviii. p. 113.

(14)†PACHYZANCLA ACYPTERA, n. sp.

♂. Grey with a slight olive tinge; head and tegulæ tinged with fuscous; palpi white below. Fore wing with the apex produced and acute, the outer margin excised; the base of costa blackish; an indistinct obliquely curved antemedial line; traces of a point in cell and a black discoidal spot; the postmedial line slightly curved from costa to vein 2, then retracted to below end of cell. Hind wing with discoidal spot; a dark postmedial line excurved between veins 5 and 2, then slightly retracted; both wings with fine dark terminal line.

Hab. Orizaba, Mexico (*Schaus*). *Exp.* 24 mm.

(15)†PACHYZANCLA INNOTALIS, n. sp.

Cupreous fuscous; palpi white at base; pectus and ventral surface of abdomen whitish. Fore wing with very faint traces of the ante- and postmedial lines; indistinct dark points at middle of cell and on discocellulars. Hind wing with indistinct dark discoidal point and faint traces of the postmedial line.

Hab. Venezuela, Aroa. *Exp.*, ♂ 22, ♀ 24 mm.

(16) PACHYZANCLA CYNARALIS Wlk. xviii. 672. India; Ceylon.

†*Hapalia marginalis* Moore, Lep. Ceyl. iii. p. 538, pl. 182. f. 13.

(17)†PACHYZANCLA LATIFUSCALS Hmps. Journ. Bomb. Nat. Hist. Soc. ined. Sikhim.

(18)†PACHYZANCLA HIPPONALIS Wlk. xvii. 374. Formosa; Australia;
†*Botys pigresalis* Wlk. xviii. 724.(19) PACHYZANCLA MARGINALIS Warr. A. M. N. H. (6) xviii. p. 115. Sikhim; Khásis.
Goniorhynchus obliquistriga Warr. A. M. N. H. (6) xviii. p. 115.

(20)†PACHYZANCLA SUBDENTALIS Swinh. A. M. N. H. (6) xiv. p. 147. Assam.

(21)†PACHYZANCLA MINORALIS Warr. A. M. N. H. (6) ix. p. 435. W. Africa.

(22)†PACHYZANCLA USTULALIS Hmps. Moths Ind. iv. p. 403. Ceylon.

(23)*PACHYZANCLA RUFESCENTALIS Hmps. Moths Ind. iv. p. 403. Burma.

(24)†PACHYZANCLA INTENSALIS Swinh. A. M. N. H. (6) xiv. p. 143. Assam.

Ebulea ochripunctalis Warr. A. M. N. H. (6) xviii. p. 111.

(25)*PACHYZANCLA CALISTALIS Hmps. Moths Ind. iv. p. 404. Assam.

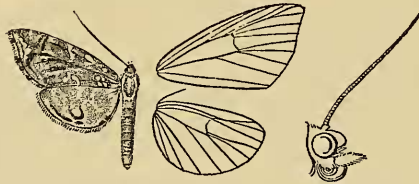
Genus 112. RHECTOSOMIA.

Rhectosomia Led. Wien. Ent. Mon. 1863, p. 414.

Palpi porrect, short, triangularly scaled, the 3rd joint concealed

maxillary palpi filiform; frons with a rounded prominence; antennæ of female almost simple; legs long and slender. Fore wing with the costa arched towards apex, which is produced and acute; the outer margin excised below apex, then excurved; veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9, to which 10 is closely approximated. Hind wing with the cell half the length of wing; vein 3 from angle; 4, 5 approximated for some distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 112.

*Rhetosomia argentipunctalis*, ♂. ♀.

Type. (1)**RHETOSOMIA MULTIFARIALIS* Led. Wien. Ent. Mon. 1863, p. 414, pl. 15. f. 7. Mexico; Costa Rica; Venezuela.

(2)**RHETOSOMIA ARGENTIPUNCTALIS* Druce, Biol. Centr.-Am., Het. ii. p. 264, pl. 62. ff. 28, 29. Mexico; Guatemala.

Genus 113. *LOXONEPTERA*.

Loxoneptera Hmspn. Moths Ind. iv. p. 405 (1896).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons produced to a flattened plate with rounded edge; antennæ of male minutely ciliated; tibiæ with the outer spurs minute; mid tibiæ of male dilated with a fold containing a tuft of long hair; abdomen of male with very large

Fig. 113.

*Loxoneptera carnealis*, ♂. ♀. (From Moths Ind. vol. iv.)

paired lateral tufts from just beyond middle. Fore wing of male with fringe of long hair on base of inner margin, which is excised towards outer angle and bears a curved tuft of hair; vein 3 before angle of cell; 4, 5 from angle; 7 curved and approximated to 8, 9, to which 10 also is approximated. Hind wing of male with

fringe of hair on median nervure towards angle of cell; a small tuft below vein 2 and a fringe on vein 1 *c*; vein 3 from before angle of cell; 4, 5 somewhat approximated for a short distance; 6, 7 from upper angle.

Type. LOXONEPTERA CARNEALIS Hmps. Moths Ind. iv. p. 406.

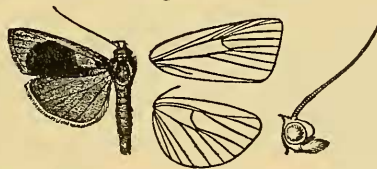
N.E. India.

Genus 114. PROÆDEMA.

Proædema Hmps. Moths Ind. iv. p. 406 (1896).

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons with a rounded prominence, antennæ thickened and flattened; tibiæ with the outer spurs half the length of inner; male with the claspers long and exerted. Fore wing rather narrow, the apex rounded; vein 3 from before angle of cell; 4, 5 from angle; 7 curved and approximated to 8, 9. Hind wing with veins 4, 5 approximated for a short distance; 6, 7 stalked, 7 anastomosing with 8.

Fig. 114.



Proædema inscisalis, ♂. †. (From Moths Ind. vol. iv.)

Type. (1)†PROÆDEMA INSCISALIS Wlk. xxxiv. 1410; Moore, Lep. Ceyl. iii. pl. 181. f. 1. India; Ceylon; Malayan subregion to Australia.

(2)†PROÆDEMA NIGROLINEALIS Warr. A. M. N. H. (6) ix. p. 390. Argentina.

Genus 115. PHLYCTÆNODES.

Emmelia Hübn. Samml. Exot. Schmett. v. 8, p. 409 (1824), non. descr.

Loxostege Hübn. Verz. p. 352 (1827), non. descr.

Phlyctænodes Guen. Delt. & Pyr. p. 173 (1856).

Spilodes Guen. Delt. & Pyr. p. 379.

Dosara Wlk. xix. 828 (1859).

Ephelis Led. Wien. Ent. Mon. 1863, p. 356.

Eurycreon Led. Wien. Ent. Mon. 1863, p. 376.

Metallarcha Meyr. Trans. Ent. Soc. 1884, p. 331.

Proterœca Meyr. Trans. Ent. Soc. 1884, p. 317.

Proterœca Meyr. Trans. Ent. Soc. 1884, p. 335.

Tritœa Meyr. Trans. Ent. Soc. 1884, p. 341.

Blepharucha Warr. A. M. N. H. (6) ix. p. 177 (1892).

Euctenospila Warr. A. M. N. H. (6) ix. p. 177.

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair;

maxillary palpi filiform; frons with a pointed conical prominence; antennæ of male almost simple; tibiæ smooth. Fore wing with vein 3 from near angle of cell; 7 straight and well separated from 8, 9. Hind wing with vein 3 from close to angle of cell; 4, 5 from angle and more or less approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 115.



Phlyctenodes massalis, ♂. †. (From Moths Ind. vol. iv.)

SECT. I. Hind tibiæ of male with the outer medial spur about one-sixth length of inner.

- (1) PHLYCTENODES PALEALIS Schiff. Wien. Verz. p. 123.
Europe; Madeira; N. Africa; Japan;
Phalena flaveolata Rott. Naturf. xi. p. 80. China; N. India.
Pyralis selenalis Hübn. Samml. Eur. Schmett., Pyr. f. 177.
†*Botys anaxisalis* Wlk. xviii. 658.
Spilodes algerialis Allard, Ann. Soc. Ent. Fr. 1867, p. 321, pl. 6.
f. 11 (var.).
- (2)†PHLYCTENODES DASCONALIS Wlk. xviii. 773. U.S.A.
- (3) PHLYCTENODES COLORADENSIS Grote & Rob. Tr. Am. Ent. Soc. i. p. 25, pl. 2. f. 18. U.S.A.
Botys pergivalis Hulst, Tr. Am. Ent. Soc. xiii. p. 151.
- (4)†PHLYCTENODES OBLITERALIS Wlk. xxxiv. 1892. U.S.A.
Botys marculenta Grote & Rob. Tr. Am. Ent. Soc. i. p. 23,
pl. 2. f. 21.
- (5) PHLYCTENODES MANCALIS Led. Wien. Ent. Mon. 1863, p. 371,
pl. 9. f. 4. U.S.A.
- (6)*PHLYCTENODES CYRALIS Druce, Biol. Centr.-Am., Het. ii.
p. 204, pl. 60. f. 15. U.S.A.; Mexico.
- (7) PHLYCTENODES VERTICALIS Linn. Syst. Nat. x. no. 335.
Europe; Japan; Afghanistan; N.W. Himalayas.
Pyralis limbalis Schrank, Faun. Boica, ii. 2. 64.
Botys cinctalis Tr. Schmett. Eur. vii. p. 97.
,, *lavalis* H.-S. Eur. Schmett. p. 37.
Var. *nigriciliialis* Rag. Bull. Soc. Ent. Fr. 1895, p. xcvi.
- (8) PHLYCTENODES CHORTALIS Grote, Bull. Buff. Soc. i. p. 89,
pl. 2. f. 13. U.S.A.

- (9)†PHLYCTÆNODES CROCALIS Hmps. Ill. Het. viii. p. 131, pl. 154.
f. 7. S. India; Ceylon.
- (10)†PHLYCTÆNODES PERBONALIS Swinh. Trans. Ent. Soc. 1890,
p. 272, pl. 8. f. 17. Burma.
- (11)†PHLYCTÆNODES BREVIVITALIS Hmps. Moths Ind. iv.
p. 409. Assam.
- (12) PHLYCTÆNODES DECOLORALIS Warr. A. M. N. H. (6) xviii.
p. 111. Assam.
- (13)†PHLYCTÆNODES FLAVIFIMBRIALIS Warr. A. M. N. H. (6) ix.
p. 174. U.S.A.

SECT. II. Hind tibiæ of male with the outer spurs about half the length of inner.

A. (*Euctenospila*). Antennæ of male bipectinate.

- (14)†PHLYCTÆNODES CASTALIS Warr. A. M. N. H. (6) ix. p. 177.
Abyssinia.

B. (*Proternia*). Antennæ of male sinuate and bent at two-thirds, with a row of projecting scales in the bend below.

- (15) PHLYCTÆNODES PHILOCAPNA Meyr. Trans. Ent. Soc. 1884,
p. 317. N. Zealand.

C. Antennæ of male ciliated.

- (16) PHLYCTÆNODES SULPHURALIS Hübn. Samml. Eur. Schmett.,
Pyr. ff. 166, 167. S. & E. Europe.
- (17)*PHLYCTÆNODES INORNATALIS Leech, Entom. 1889, p. 68,
pl. 3. f. 13. Japan.
- (18) PHLYCTÆNODES TURBIDALIS Tr. Schmett. Eur. vii. p. 119.
S. Europe; Armenia.
Scopula flagellalis Dup. Lep. Fr. vii. p. 370, pl. 236. ff. 1, 2.
Pyralis gilvalis Hübn. Samml. Eur. Schmett., Pyr. f. 154.
- (19) PHLYCTÆNODES VIRESICALIS Guen. Delt. & Pyr. p. 383.
C. Europe.
Scopula clathralis Dup. Léop. Fr. viii. pl. 236. ff. 8, 9.
- (20) PHLYCTÆNODES CLATHRALIS Hübn. Samml. Eur. Schmett.,
Pyr. f. 168. S. Europe; Armenia.
Eurycreon comptalis Led. Verh. z.-b. Ver. 1855, p. 552.
Spilodes tessellalis Guen. Delt. & Pyr. p. 383 (var.).
„ *granatalis* Staud. S. E. Z. 1859, p. 222.
- (21) PHLYCTÆNODES ÆRUGINALIS Hübn. Samml. Eur. Schmett.,
Pyr. f. 133. S. Europe
Pyralis olivalis Hübn. Samml. Eur. Schmett., Pyr. f. 162.

- (22) PHLYCTÆNODES COMPTALIS FR. vi. p. 68, pl. 521. f. 4.
Mediterranean subregion.
- (23) PHLYCTÆNODES MUCOSALIS H.-S. iv. p. 23. ff. 14, 15.
S.E. Europe; W. Asia.
- (24)†PHLYCTÆNODES SIMPLALIS Swinh. P. Z. S. 1889, p. 421.
N.W. India.
- (25)†PHLYCTÆNODES HELVIALIS Wlk. xviii. 772. U.S.A.
†*Botys thycesalis* Wlk. xix. 981.
† „ *apertalis* Wlk. xxxiv. 1393.
„ *citrina* Grote & Rob. Tr. Am. Ent. Soc. i. p. 23, pl. 2.
f. 20.
- (26) PHLYCTÆNODES NUDALIS Hübn. Samml. Eur. Schmett., Pyr.
f. 90. S. Europe; W. Africa; Syria; Aden;
Pyralis interpunctalis Hübn. Samml. India; Ceylon.
Eur. Schmett., Pyr. f. 128.
Botys unipunctalis Dup. Léop. Fr. viii. p. 166, pl. 221. f. 5.
„ *bipunctalis*, Dup. Léop. Fr. viii. p. 167, pl. 221. f. 6.
† „ *pauciferalis* Wlk. xxxiv. 1415.
- (27)†PHLYCTÆNODES BIFIDALIS Fabr. Ent. Syst. iii. 2, p. 232.
W. Indies; S. America.
Phlyctenodes inornatalis Wlk. xxxiv. 1456.
Eurycreon evanidalis Berg, Bol. Ac. Cordova, i. p. 163.
„ *obsoletalis* Berg, Bol. Ac. Cordova, i. p. 165 (var.).
Botys orbitalis Feld. Reis. Nov. pl. 134. f. 32.
- (28)†PHLYCTÆNODES FERRUGINEA Warr. A. M. N. H. (6) ix. p. 179
(1892). Argentina; Peru.
- (29)†PHLYCTÆNODES FULVALIS Warr. A. M. N. H. (6) ix. p. 301.
S. Africa.
- (30)†PHLYCTÆNODES UMBROSALIS Warr. A. M. N. H. (6) ix. p. 301.
China.
- (31) PHLYCTÆNODES SIMILALIS Guen. Delt. & Pyr. p. 405.
N. & S. America; W. Indies.
Nymphula rantalis Guen. Delt. & Pyr. p. 405.
†*Ébulea murcialis* Wlk. xviii. 746.
†*Scopula crinisalis* Wlk. xviii. 798.
†*Botys siriusalis* Wlk. xviii. 563.
† „ *licealis* Wlk. xviii. 563.
†*Scopula nestusalis* Wlk. xviii. 784.
† „ *thoonalis* Wlk. xviii. 785.
† „ *diotimealis* Wlk. xviii. 785.
†*Nephoptyx intractella* Wlk. xxvii. 55.
Botys posticata Grote & Rob. Trans. Am. Ent. Soc. i. p. 22,
pl. 2. f. 25.
†*Eurycreon communis* Grote Can. Ent. ix. p. 105.
„ *occidentalis* Pack. Ann. N. Y. Lyc. x. p. 260.

- (32)†PHLYCTÆNODES PROTEALIS Warr. A. M. N. H. (6) ix. p. 178
(1892). Peru.
- (33)†PHLYCTÆNODES NUBILALIS Hmpsn. Ill. Het. viii. p. 132,
pl. 154. f. 12. S. India.
- (34)*PHLYCTÆNODES VESPERTILIO Warr. A. M. N. H. (6) xviii.
p. 171. Assam.
- (35) PHLYCTÆNODES AFFINITALIS Led. Wien. Ent. Mon. 1863,
p. 475, pl. 12. f. 4. Australia.
†*Scopula ustalis* Wlk. xxxiv. 1477.
† „ *turbidalis* Wlk. xxxiv. 1477.
†*Nymphula sordida* Butl. Trans. Ent. Soc. 1886, p. 432.
- (36) PHLYCTÆNODES STICTICALIS Linn. Faun. Suec. 1354. U.S.A.;
Pyralis fuscalis Hübn. Pyr. f. 45. Europe; Beloochistan.
„ *tetragonalis* Haw. Lep. Brit. p. 385.
„ *lupulina* Cl. Icon. pl. ix. f. 4.
- (37) PHLYCTÆNODES FRUSTALIS Zell. Lep. Caffr. p. 48. S. Africa.
†*Eurycreon leucostictalis* Zell. Verh. z.-b. Ver. 1872, p. 518.
- (38)†PHLYCTÆNODES MASSALIS Wlk. xviii. 792. W. Africa;
†*Dosara colatalis* Wlk. xix. 829; Hmpsn. India; Ceylon;
Ill. Het. ix. pl. 172. f. 22. Australia.
- (39)†PHLYCTÆNODES PALMALIS Swinh. P. Z. S. 1884, p. 525,
pl. 48. f. 11. Aden; N.W. India.
- (40) PHLYCTÆNODES USTRINALIS Christ. Hor. Ent. Ross. xii. 1876,
p. 271, pl. 7. f. 45. S. Europe; Tunis; W. Asia;
Metasia excavatilis Rag. Deutsch. Ent. Zeit., Persia.
Lep. v. p. 294, pl. iii. f. 14.
„ *emiralis* Oberth. Et. Ent. xii. p. 36, pl. vi. f. 33.
- (41)†PHLYCTÆNODES ALBIFASCIALIS Hmpsn. P. Z. S. 1896, p. 276,
pl. x. f. 29. Aden.
- (42) PHLYCTÆNODES VENUSTALIS Cram. Exot. Schmett. iv. pl. 371.
f. I. S. Africa.
Emmelia testula Hübn. Exot. Schmett. v. 8. 409. ff. 817, 818.
†*Botys divulsalis* Zell. Lep. Caffr. p. 47.
†*Scopula jucundalis* Wlk. xxxiv. 1469.
- (43) PHLYCTÆNODES PELTALIS Ev. Bull. Mosc. 1842, p. 560, pl. 6.
f. 11. Ural & Altai Mts.
- (44)†PHLYCTÆNODES ANNAPHILALIS Grote, Can. Ent. xiii. p. 34.
U.S.A.
- (45)†PHLYCTÆNODES ANARTALIS Grote, Cau. Ent. x. p. 27. U.S.A.
Botys lulualis Hulst, Tr. Am. Ent. Soc. xiii. p. 150.
- Type. (46) PHLYCTÆNODES PUSTULALIS Hübn. Pyr. ff. 191, 192.
S. Europe; Armenia.

- (47) PHLYCTÆNODES CRUENTALIS Hübn. Zutr. 29. 361. ff. 721, 722. S. Europe; Armenia; Egypt.
Botys badialis Tr. Schmett. Eur. x. 3. p. 9.
 „ *bourjotalis* Dup. Léop. Fr. viii. p. 313, pl. 231. f. 4.
- (48)*PHLYCTÆNODES ASOPIALIS Snell. Tijd. v. Ent. xviii. p. 209, pl. 12. f. 3. Trinidad; Amazon.
- (49) PHLYCTÆNODES ZAIDE Stoll, pl. 36. f. 6. S. Africa.
Botys cruoralis Zell. Lep. Caffr. p. 51.
 †*Scopula dilaceratalis* Wlk. xxxiv. 1469.
- (50) PHLYCTÆNODES PLUMBATALIS Zell. Lep. Caffr. p. 51. S. Africa.
Botys plumbofascialis Led. Wien. Ent. Mon. vii. p. 363, pl. 8. f. 7.
 †*Scopula ferriscriptalis* Wlk. xxxiv. 1467.
- (51)*PHLYCTÆNODES OBLINALIS Feld. Reis. Nov. pl. 134. f. 38. S. Africa.
- (52) PHLYCTÆNODES EURYCHRYSA Meyr. Trans. Ent. Soc. 1884, p. 334. Australia.
- (53) PHLYCTÆNODES DIPLOCHRYSA Meyr. Trans. Ent. Soc. 1884, p. 332. Australia.
- (54) PHLYCTÆNODES CALLIASPIS Meyr. Trans. Ent. Soc. 1884, p. 332. Australia.
- (55) PHLYCTÆNODES EPICHRYSA Meyr. Trans. Ent. Soc. 1884, p. 333. Australia.
- (56)*PHLYCTÆNODES TETRAPLACA Meyr. Trans. Ent. Soc. 1887, p. 236. Australia.
- (57)*PHLYCTÆNODES PSELIOTA Meyr. Trans. Ent. Soc. 1887, p. 237. Australia.
- (58)†PHLYCTÆNODES OPHIONALIS Wlk. xvii. 316. U.S.A.
- (59) PHLYCTÆNODES SESQUIALTERALIS Zell. Verh. zool.-bot. Ver. Wien, 1873, p. 209, pl. 3. f. 5. U.S.A.
- (60)†PHLYCTÆNODES NASONIALIS Zell. Verh. zool.-bot. Ver. Wien, 1873, p. 201, pl. 3. f. 6. U.S.A.
- (61) PHLYCTÆNODES VIBICALIS Zell. Verh. zool.-bot. Ver. Wien, 1873, p. 208, pl. 3. f. 4. U.S.A.

Auctorum.

- Loxostege baccatalis* Hulst, Can. Ent. xxiv. p. 63. U.S.A.
 „ *maclurei* Riley, Insect Life, v. pp. 155, f. 11 & 158. U.S.A.
 „ *oberthuralis* Fern. Insect Life, vi. p. 255. U.S.A.
 „ *flavalis* Fern. Insect Life, vi. p. 255. U.S.A.
 „ *linealis* Fern. Insect Life, vi. p. 255. U.S.A.

Genus 116. *DIASEMIA*.*Diasemia* Guen. Delt. & Pyr. p. 233 (1854).*Myriostephes* Meyr. Trans. Ent. Soc. 1884, p. 327.*Choristostigma* Warr. A. M. N. H. (6) ix. p. 440 (1892).

Palpi porrect, triangularly scaled, the 3rd joint hidden; maxillary palpi dilated with scales; frons rounded; antennæ annulated and ciliated, in male minutely serrate; tibiæ with the spurs long and even. Fore wing long and narrow; veins 3, 4, 5 from angle; 7 straight and well separated from 8, 9, to which 10 is approximated. Hind wing with the outer margin excised below apex; the cell short; veins 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing strongly with 8.

Fig. 116.

*Diasemia ramburialis*, ♂. ♀. (From Moths Ind. vol. iv.)

- Type.* (1) *DIASEMIA LITTERATA* Scop. Ent. Carn. p. 229.
Europe; Japan; India; Ceylon.
Phalæna argentalis Fabr. Ent. Syst. p. 419.
†*Isopteryx impulsalis* Wlk. xvii. 404.
- (2) *DIASEMIA RAMBURIALIS* Dup. Lép. Fr. viii. p. 343, pl. 233.
f. 6. Universally distributed.
†*Isopteryx melaleucalis* Wlk. xvii. 402.
†*Lineodes leodocusalis* Wlk. xix. 947.
†*Diasemia reconditalis* Wlk. xxxiv. 1325.
† „ *leucophæalis* Wlk. xxxiv. 1326.
- (3) †*DIASEMIA ACCALIS* Wlk. xix. 1015. China; N.W. Himalayas;
Burma; Malayan subregion.
„ *spilonotalis* Snell. Midd.-Sum., iv. Lep. p. 73.
- (4) †*DIASEMIA GRAMMALIS* Doubl. Dieff. N. Zealand, ii. 287.
N. Zealand.
- (5) †*DIASEMIA JANASSIALIS* Wlk. xvii. 337. U.S.A.
Botys hariolalis Hulst, Tr. Am. Ent. Soc. xiii. p. 149.
- (6) †*DIASEMIA DISJECTALIS* Zell. Lep. Caffr. p. 16. S. Africa.
- (7) *DIASEMIA MATURA* Meyr. Trans. Ent. Soc. 1884, p. 328.
Australia.
- (8) *DIASEMIA PLUMBOSIGNALIS* Fern. Ent. Am. iv. p. 37. U.S.A.
- (9) †*DIASEMIA ELEGANTALIS* Warr. A. M. N. H. (6) ix. p. 440.
U.S.A.

(10)†*DIASEMIA ERUBESCENS*, n. sp.

♀. Head, thorax, and abdomen red-brown. Fore wing yellow, irrorated with rufous scales, most thickly on costal and outer areas; an indistinct dark sinuous antemedial line; a leaden-coloured annulus in cell; a postmedial slightly curved leaden band with black edges, not reaching costa; a dark point on costa towards apex; a minutely waved subterminal leaden and black line, almost obsolete except between veins 7 and 3. Hind wing whitish, with dark discoidal point; traces of a medial line on inner area; an obscure postmedial line excurved between veins 5 and 2, the area beyond it suffused with rufous; both wings with some terminal dark points.

Hab. Mexico, Orizaba, Jalapa (*Schaus*). *Exp.* 18 mm.

Auctororum.

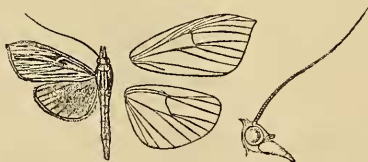
Diasemia inabsconsalis Möschl. Abh. Senck. Ges. xvi. p. 305.

Porto Rico.

Genus 117. *LEPIDONEURA*.

Palpi porrect, downcurved, and about twice the length of head; the 3rd joint long; maxillary palpi dilated with scales; frons flat and oblique; antennæ nearly as long as fore wing, and almost simple; legs long and slender; tibiæ slightly fringed with hair, the outer spurs about half the length of inner; male with a large downwardly directed tuft of flattened hair from near origin of fore wing; abdomen long and slender. Fore wing with the costa highly arched towards apex, which is somewhat acute; vein 3 from angle of cell; 4, 5 somewhat approximated for a short distance; 7 curved and approximated to 8, 9, to which 10 also is approximated. Hind wing with the cell about half the length of wing; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 117.



Lepidoneura longipalpis, ♂. †. (From *Moths Ind.* vol. iv.)

Type. (1)†*LEPIDONEURA LONGIPALPIS* Swinh. A. M. N. H. (6) xiv. p. 208.

Assam.

(2)†*LEPIDONEURA AFRICALIS*, n. sp.

♀. Ochreous; abdomen with traces of fuscous dorsal bands. Fore wing whitish, with diffused ochreous-brown suffusion on marginal areas; a diffused oblique patch of long dark scales beyond the

cell between veins 8 and 4; an oblique sinuous line of similar scales from vein 5 near termen to middle of inner margin, expanding into a diffused patch below the cell; cilia dark at base. Hind wing yellowish white; termen more ochreous.

Hab. Bathurst, Gambia (*Carter*). *Exp.* 24 mm.

Genus 118. ANTIGASTRA.

Antigastra Led. Wien. Ent. Mon. 1863, p. 419.

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi dilated with scales; frons flat and oblique; antennæ nearly as long as the fore wing and minutely ciliated; legs long; fore femora and tibiæ of male fringed with long hair, the outer spurs half the length of inner. Fore wing with the costa arched towards apex, which is acute and produced; veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9. Hind wing with the cell half the length of wing; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 118.



Antigastra catalaunalis, ♂. †. (From *Moths Ind.* vol. iv.)

Type. (1) ANTIGASTRA CATALAUNALIS Dup. Lép. Fr. viii. p. 330, pl. 232.
f. 8. Europe; Syria; Aden; E. & W. Africa; India.
Botys venosalis Wlk. xxxiv. 140. Ceylon; Burma; Mexico.

(2) † ANTIGASTRA MORYSALIS Wlk. xviii. 641. Natal.
† *Zebronia cranealis* Wlk. xix. 970.

Auctorum.

Antigastra cinnamomalis Saalm. Ber. Senck. Ges. 1879-80,
p. 297. Madagascar.

Genus 119. LIOPASIA.

Liopasia Möschl. Verh. z.-b. Wien, xxxi. p. 426 (1881).

Terastiodes Warr. A. M. N. H. (6) ix. p. 298 (1892).

Dichotis Warr. A. M. N. H. (6) ix. p. 392.

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi strongly dilated with scales; frons oblique; antennæ of male slightly ciliated; build stout: tibiæ smoothly scaled, the outer spurs less than half the length of inner. Fore wing long and narrow, the apex rectangular; the outer margin

excurved below middle; the inner margin excised before outer angle, where there is a scale-tooth; vein 3 from angle of cell; 4, 5 approximated for a short distance; 7 curved and approximated to 8, 9. Hind wing with vein 3 from angle of cell; 4, 5 approximated for some distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 119.

*Liopasia ochracealis*, ♂. †.

(1)†*LIOPASIA OCHRACEALIS* Wlk. xxxiv. 1308. Ecuador; Brazil.
Botys rhodophilalis Maasen, Stübel's Reise, p. 169, pl. ix. f. 20.

(2)†*LIOPASIA DORSALIS*, n. sp.

♀. Yellowish brown, irrorated with black scales; palpi white below at base; underside of thorax and abdomen white; fore legs banded with brown; abdomen with dorsal yellow patches on first two segments, and a pair of white spots on 3rd. Fore wing with oblique sinuous antemedial dark line; a discocellular speck; a diffused black patch between lower angle of cell and inner margin; a dentate postmedial line angled at vein 5 and with two yellow teeth on it above inner margin; cilia yellow above outer angle. Hind wing semihyaline yellow; the apical area fuscous, narrowing to vein 2.

Hab. Trinidad. *Exp.* 40 mm.

(3) *LIOPASIA TENERALIS* Led. Wien. Ent. Mon. 1863, p. 370,
pl. 8. f. 10. N. Amer., Colombia.

Type. (4) *LIOPASIA RELIQUALIS* Möschl. Verh. z.-b. Wien, xxxi. p. 426,
pl. 18. f. 35. Surinam.

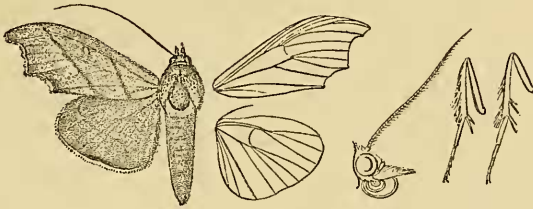
Genus 120. SPARAGMIA.

Sparagmia Guen. Delt. & Pyr. p. 216 (1854).

Palpi porrect, triangularly scaled and extending about the length of head, the 3rd joint hidden by hair; maxillary palpi strongly dilated with scales; frons flat and oblique; antennæ ciliated; mid tibiæ fringed with hair on outer side; hind tibiæ with tufts of hair on outer side at middle and extremity, the outer spurs about half the length of inner. Fore wing long and narrow, the apex produced and falcate; the outer margin produced to an angle at vein 3; veins 3, 4, 5 from angle of cell; 7 curved and approxi-

mated to 8, 9. Hind wing with veins 3, 4, 5 from angle of cell ; 6, 7 shortly stalked, 7 anastomosing with 8.

Fig. 120.

*Sparagmia gigantalis*, ♂. 1.

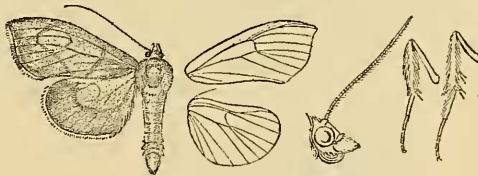
Type. SPARAGMIA GIGANTALIS Guen. Delt. & Pyr. p. 216, pl. 6. f. 10.
W. Indies ; Tropical America.

Genus 121. ANARMODIA.

Anarmodia Led. Wien. Ent. Mon. 1863, p. 412.

Palpi porrect, triangularly scaled, extending about the length of head, the 3rd joint hidden by hair; maxillary palpi strongly dilated with scales; frons flat and oblique; antennæ of male ciliated; mid and hind tibiæ strongly fringed with hair, the outer spurs about half the length of inner. Fore wing long and narrow; the apex produced and acute; the outer margin strongly excurved at middle; veins 3, 4, 5 from angle of cell; 7 curved and approximated to 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 121.

*Anarmodia sibilalis*, ♂. 1.

- (1)*ANARMODIA PONTEALIS Druce, Biol. Centr.-Am., Het. ii. p. 218,
pl. 61. f. 6. Mexico; Centr. Amer.
- (2) ANARMODIA SIBILALIS Guen. Delt. & Pyr. p. 215. Brazil.
- (3) ANARMODIA INSCRIPTALIS Guen. Delt. & Pyr. p. 213. Ecuador.
- (4) ANARMODIA BISTRALIS Guen. Delt. & Pyr. p. 214. Colombia.

(5)†ANARMODIA PUNCTILINEALIS, n. sp.

♂. Fulvous yellow; pectus and ventral surface of abdomen pale yellow. Fore wing with slightly waved antemedial fuscous line oblique from costa to below median nervure, where it is obtusely angled; a point in cell and discoidal lunule; a curved series of postmedial black points on the veins, with diffused fuscous patch beyond them between veins 3 and 6; cilia dark at base, pure white at tips. Hind wing with the basal and inner areas paler; a black discoidal point; a crenulate postmedial line; cilia brown at base with fuscous points, the tips white mixed with brown and fuscous.

Hab. Ecuador, Loja. *Exp.* 50 mm.

(6) ANARMODIA CLAMALIS Guen. Delt. & Pyr. p. 215. Brazil.

(7)*ANARMODIA MAJORALIS Guen. Delt. & Pyr. p. 215. Brazil.

(8) ANARMODIA CORYLALIS Guen. Delt. & Pyr. p. 214. Colombia.

Type. (9) ANARMODIA INFERIORALIS Guen. Delt. & Pyr. p. 214.

C. & S. America.

„ *longinqualis* Led. Wien. Ent. Mon. 1863, p. 413.

Acrospila phellinoulalis Maasen, Stubel's Reise, p. 170, pl. ix. f. 26.

Auctororum.

Atheropoda flaccidalis Snell. Tijd. v. Ent. xxxv. p. 169. Peru.

„ *inflexalis* Snell. Tijd. v. Ent. xxxv. p. 169 = *majoralis* Led. pl. iii. f. 9 (nec Guen.). Brazil.

Genus 122. CONDYLORRHIZA.

Condylorrhiza Led. Wien. Ent. Mon. 1863, p. 393.

Palpi porrect, triangularly scaled, the 3rd joint concealed; maxillary palpi dilated with scales; frons flat and oblique; antennæ of male with the basal joint dilated and bearing a tuft

Fig. 122

*Condylorrhiza vestigialis*, ♂. †.

of scales on inner side, the shaft almost simple; mid and hind tibiae with the outer spurs short. Fore wing with vein 3 from angle of cell; 4, 5 approximated for a short distance; 7 strongly curved and approximated to 8, 9. Hind wing with veins 3, 4, 5

from angle of cell; 6, 7 stalked, 7 anastomosing with 8; male with a hairy fold on inner area above.

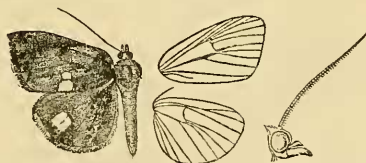
Type. CONDYLORRHIZA VESTIGIALIS Guen. Delt. & Pyr. p. 321. S. Amer.
 † *Botys tritealis* Wlk. xviii. 597.
 † „ *mestoralis* Wlk. xviii. 729.

Genus 123. AGASTYA.

Agastya Moore, P. Z. S. 1881, p. 378.

Palpi porrect, projecting about the length of head and down-curved; maxillary palpi with a sharp tuft of hair from extremity; frons rounded; antennæ ciliated; tibiæ with the outer spurs about two-thirds length of inner; mid tibiæ fringed with coarse hair on outer side. Fore wing broad, the costa very much arched at base; veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9, to which 10 is approximated. Hind wing broad; the cell short; vein 2 from near angle; 3, 4, 5 approximated for some distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 123.



Agastya hybleoides, ♂. †. (From Moths Ind. vol. iv.)

Type. † AGASTYA HYBLEOIDES Moore, P. Z. S. 1881, p. 379. Sikhim.
 „ *flavomaculata* Moore, P. Z. S. 1881, p. 379.

Genus 124. PROTRIGONIA.

Protrigonia Hmps. Moths Ind. iv. p. 414 (1896).

Palpi porrect, projecting about the length of head, down-curved, and the 3rd joint hidden; maxillary palpi with a pointed

Fig. 124.



Protrigonia zizanialis, ♂. †. (From Moths Ind. vol. iv.)

tuft at extremity; frons rounded; antennæ of male somewhat thickened and flattened; tibiæ with the spurs nearly equal. Fore wing with vein 3 from before angle of cell; 4, 5 from angle;

7 straight and well separated from 8, 9. Hind wing with the cell about half the length of wing; vein 3 from before angle; 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

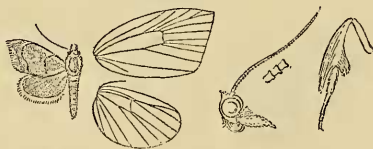
Type. †*PROTRIGONIA ZIZANIALIS* Swinh. P. Z. S. 1885, p. 865, pl. 57. f. 2.
W. India & Ceylon.

Genus 125. *MICROCAUSTA*.

Microcausta Hmps. A. M. N. H. (6) xvi. p. 340 (1895).

Palpi porrect, extending about twice the length of head, down-curved at extremity, the 3rd joint hidden in hair; maxillary palpi triangularly scaled; frons rounded; antennæ annulate; hind tibiæ of male fringed with extremely long hair on outer side and with tufts of hair towards extremity, the spurs absent, the first joint of tarsus fringed with hair. Fore wing broad, the apex produced and acute; veins 3, 4, 5 from close to angle of cell; 7 straight and well separated from 8, 9. Hind wing with veins 3 and 5 from angle of cell; 4 absent; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 125.



Microcausta ignifimbrialis, ♂. †.

Type. †*MICROCAUSTA IGNIFIMBRIALIS* Hmps. A. M. N. H. (6) xvi. p. 340.
W. Indies.

Genus 126. *NOORDA*.

Noorda Wlk. xix. 978 (1857).

Palpi porrect, the 3rd joint long and downcurved; maxillary palpi with a long pointed tuft in front; frons rounded; tibiæ with the outer spurs about half the length of inner. Fore wing

Fig. 126.



Noorda blitealis, ♂. †. (From Moths Ind. vol. iv.)

narrow; vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with veins 4, 5 approximated for a short distance; 6, 7 from upper angle; 7 anastomosing with 8.

SECT. I. Antennæ of male almost simple.

(1) NOORDA IGNEALIS, n. sp.

Bright yellow; head, thorax, and abdomen suffused with fiery red in parts; palpi at base and rings on abdomen towards extremity, pectus, and ventral surface of abdomen white. Fore wing with the costal area fiery red, the costa itself dark; dentate subbasal, medial, and postmedial lines, the last two oblique, the 2nd expanding into a discoidal spot, the last slightly excurved between veins 7 and 3; terminal area red, leaving a yellow edge to postmedial line; a diffused purplish-fuscous terminal band; cilia white, black at apex and below middle. Hind wing with the terminal area purplish, narrowing to tornus; cilia white, blackish at apex and middle.

Hab. Fergusson I., N. Guinea; Cooktown, Queensland (*Meek*).
Exp. 16 mm. Types in Coll. Rothschild and B.M.

(2)†NOORDA ESMERALDA, n. sp.

Emerald-green; head whitish; palpi brown at sides; antennæ fulvous; hind wing greenish white, the termen green.

Hab. Mexico, Jalapa (*Schaus*); Venezuela, Aroa. *Exp.* 36 mm.

SECT. II. Antennæ of male with long cilia.

(3)†NOORDA FESSALIS Swinh. P. Z. S. 1886, p. 459, pl. 41. f. 13.

W. Africa; Aden; India; Burma; Andamans.

†*Autocharis amethystina* Swinh. A. M. N. H. (6) xiv. p. 149.

(4)*NOORDA SINALIS, n. sp.

♀. Head and thorax fuscous; abdomen banded fuscous and white. Fore wing with the basal half of costal area suffused with fuscous; some black scales at base of inner margin; the ante-medial line represented by some black scales in and below cell and on inner margin; the postmedial line sinuous, angled inwards below costa and outwards on vein 4, some diffused fuscous scales before it, and the area beyond it greyish fuscous with a sinuous subterminal line with diffused black on its inner side; cilia pale reddish brown. Hind wing hyaline, with fuscous terminal band narrowing from costa to vein 1.

Hab. Natal, Weenen. *Exp.* 16 mm. Type in Coll. Rothschild.

Type. (5)†NOORDA BLITEALIS Wlk. xix. 979. Aden; India; Ceylon.

†*Scopula subjectalis* Wlk. xxxiv. 1472.

(6) NOORDA MARGARITALIS, n. sp.

♂. Head, thorax, and abdomen white; palpi black; anal tuft blackish. Fore wing pearly white; a bright red fascia on costa, terminating at middle in a triangular patch with its apex conjoined to outer area; the outer area brown, defined by a sinuous black line on inner side, with a broad silvery purple band on it

and becoming bright red at costa; a marginal white line emitting a curved mark below the apical red patch. Hind wing pearly white; the outer area brown and fuscous, almost wholly suffused with silvery purple, and with its medial part defined by a black line on inner side; a marginal white line; cilia of both wings pale brown, with silvery reflections.

Hab. Kikuya, German E. Africa (*Ansorge*); Sierra Leone (*Clements*). *Exp.* 24 mm. Type in B.M.

(7) *NOORDA NIGROPUNCTALIS*, n. sp.

♂. Yellowish white; palpi, sides of head, and shoulders brown; anal tuft fuscous. Fore wing with the costa reddish brown; two black points in cell, one at each angle and one on middle of inner margin; terminal area purplish fuscous, with minutely waved black line on its inner edge, bent outwards at vein 3. Hind wing with the apical area purple-fuscous, with minutely waved black line on its inner edge.

Hab. Perak; Gunung Ijan, Malay States. *Exp.* 18 mm. Types in Coll. Rothschild and B.M.

Genus 127. *DAUSARA*.

Dausara Wlk. xvii. 507 (1859).

Palpi porrect, rather long, triangularly scaled, the 3rd joint hidden; maxillary palpi with a long sharp tuft from extremity; frons flattened and oblique; antennæ of male much thickened and flattened; tibiæ with the outer spurs about two-thirds length of inner. Fore wing with the inner margin lobed at middle; veins 3, 4, 5 well separated at origin; 7 curved and closely approximated to 8, 9, to which 10 also is approximated. Hind wing with the cell short; veins 3, 4, 5 well separated at origin; 6, 7 from upper angle, 7 anastomosing slightly with 8.

Fig. 127.



Dausara talliusalis, ♂. †. (From *Moths Ind.* vol. iv.)

SECT. I. Fore wing of male with the median nervure bent upwards; a large tuft of scales on underside below its basal half, and a smaller tuft in middle of cell.

Type. (1) *DAUSARA TALLIUSALIS* Wlk. xvii. 507.

Assam; Burma;
Andamans; Borneo.

†*Glyphodes marginalis* Moore, P. Z. S. 1877, p. 618, pl. 60. f. 15.

SECT. II. Fore wing of male normal.

(2)†DAUSARA ORIONALIS Wlk. xvii. 501.

Borneo.

(3)†DAUSARA AMETHYSTA Butl. Tr. Linn. Soc. (2) Zool. i. p. 563.

Malacca; Borneo.

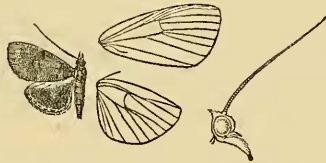
Genus 128. HEMISCOPIA.

Hemiscopia Warr. A. M. N. H. (6) vi. p. 475 (1890).

Micromania Swinh. A. M. N. H. (6) xiv. p. 141 (1894).

Palpi porrect, rather long and triangularly scaled, the 3rd joint hidden; maxillary palpi with a long pointed tuft in front; frons rounded; antennæ almost simple and minutely annulated; tibiæ with the outer spurs about half the length of inner. Fore wing with the apex somewhat acute, the outer margin rounded; veins 3 and 5 from near angle of cell; 7 straight and well separated from 8, 9. Hind wing with veins 4, 5 approximated for a short distance; 6, 7 from upper angle, 7 anastomosing shortly with 8.

Fig. 128.



Hemiscopia suffusalis, ♂. †. (From Moths Ind. vol. iv.)

Type. (1)†HEMISCOPIA SUFFUSALIS Wlk. xxxiv. 1471; Hmps. Ill. Het. ix. pl. 173. f. 18.

S. India; Ceylon;

Burma; Sumatra; Borneo.

Botys snellemani Snell. Midd.-Sum., iv. Lep. p. 61.

(2)†HEMISCOPIA CINEREA Warr. A. M. N. H. (6) ix. p. 396. Japan.

(3)†HEMISCOPIA EXPANSA Warr. A. M. N. H. (6) ix. p. 396.

N.W. Himalayas.

(4)†HEMISCOPIA STIGMATILIS Swinh. A. M. N. H. (6) xiv. p. 141.

Assam.

Genus 129. MECYNA.

Mecyna Guen. Delt. & Pyr. p. 406 (1854).

Tholeria Hübn. Verz. p. 354 (1827), non deser.

Palpi porrect, long, rostriform, and downcurved, the 3rd joint partially hidden; maxillary palpi dilated with scales at extremity; frons oblique; antennæ of male minutely ciliated; mid tibiæ with a groove containing a tuft of hair; hind tibiæ with the outer spurs about half the length of inner. Fore wing rather narrow, the costa arched towards apex; veins 3 and 5 from close to angle of cell; 7 straight and well separated from 8, 9, to which 10 is

approximated. Hind wing with the cell short; veins 4, 5 closely approximated for a short distance; 6, 7 stalked, 7 anastomosing strongly with 8.

Fig. 129.



Mecyna gilvata, ♂. †. (From Moths Ind. vol. iv.)

- (1) *MECYNA LIMBALIS* Schiff. Wien. Verz. p. 122. Europe.
Pyralis rusticalis Hübn. Pyr. f. 121.
- Type. (2) *MECYNA GILVATA* Fabr. Ent. Syst. p. 290. S. & E. Europe;
Pyralis orientalis Fabr. Ent. Syst. iii. 2, Madeira; Syria;
 p. 234. Abyssinia; Aden;
Pyralis polygonalis Hübn. Schmett. Eur., Pyr. India; Ceylon.
 ff. 617, 204, 205.
Pyralis diversalis Hübn. Schmett. Eur., Pyr. f. 102.
Mecyna aversalis Guen. Delt. & Pyr. p. 409, pl. 4. f. 12.
 „ *teriadalis* Guen. Delt. & Pyr. p. 409.
 † „ *deprivalis* Wlk. xix. 806; Moore, Lep. Ceyl. iii.
 pl. 179. ff. 1, 1 a.
- (3) *MECYNA REVERSALIS* Guen. Delt. & Pyr. p. 409.
 U.S.A.; W. Indies.
- (4)†*MECYNA PRUNIPENNIS* Butl. A. M. N. H. (5) iv. p. 454 (1879).
 Japan.
- (5) *MECYNA ORNITHOPTERALIS* Guen. Delt. & Pyr. p. 411, pl. 8.
 f. 12. Australia.
- (6) *MECYNA MAORIALIS* Feld. Reis. Nov. pl. 134. f. 34.
 N. Zealand.
- (7)†*MECYNA VIRESCENS* Butl. A. M. N. H. (5) vii. p. 329 (1881).
 Hawaii.
- (8)†*MECYNA APICALIS*, n. sp. (1898, Plate L. fig. 28.)

♂. Head and thorax ferruginous brown; abdomen pale brown. Fore wing yellow-brown, suffused with ferruginous red and more or less irrorated and suffused with fuscous; traces of a pale, highly waved antemedial line, especially on inner area; some black marks on veins at end of cell and slight patches of hyaline membrane in the discal interspaces, with a pale waved line beyond them, dentate beyond the cell and below vein 2; an indistinct minutely waved ochreous postmedial line; a silvery white bidentate mark below apex, with a fuscous streak below it; a marginal series of black specks; cilia fuscous, with a white line at base. Hind wing hyaline yellow, with all the veins streaked with fuscous, and a fuscous marginal band.

♀ redder; the hind wing without the streaks on veins, the marginal band red tapering to anal angle.

Hab. Lower Amazons (*Austen*). *Exp.* 28 mm.

Auctorum.

Tholeria illiberalis Hübn. Zutr. ff. 349, 350.

Surinam.

Genus 130. BÆOTARCHA.

Bæotarcha Meyr. Trans. Ent. Soc. 1884, p. 305.

Palpi porrect, long, rostriform, and downcurved; maxillary palpi large and dilated with scales; frons with a conical prominence; antennæ thickened and flattened; tibiæ with the outer spurs half the length of inner. Fore wing typically long and narrow; vein 3 from before angle of cell; 4, 5 well separated at origin; 7 straight and well separated from 8, 9. Hind wing with veins 4, 5 somewhat approximated for a short distance; 6, 7 from upper angle, 7 anastomosing slightly with 8.

Fig. 130.



Bæotarcha martinalis, ♂. †. (From Moths Ind. vol. iv.)

(1)*BÆOTARCHA DEMANTRIALIS Druce, Biol. Centr.-Am., Het. ii. p. 270, pl. 63. f. 6. Mexico; Centr. Amer.

(2)†BÆOTARCHA MARTINALIS Wlk. xviii. 791. Burma.
†*Botys crassicornis* Wlk. xxxiv. 1455.

Type. (3) BÆOTARCHA TÆNIALIS Snell. Tijd. v. Ent. 1880, p. 209, and 1883, pl. 7. f. 3. N. Australia.

(4)†BÆOTARCHA HYALINALIS Hmps. Moths Ind. iv. p. 419. E. Himalayas; Andamans.

(5)†BÆOTARCHA STIGMOSALIS Warr. A. M. N. H. (6), ix. p. 249. Brazil.

(6) BÆOTARCHA CEMAROALIS Wlk. xix. 1011. Brazil.

(7)†BÆOTARCHA MARGARITA Warr. A. M. N. H. (6) ix. p. 430. Brazil.

(8)†BÆOTARCHA LIMBATA Butl. Trans. Ent. Soc. 1886, p. 430. Australia.

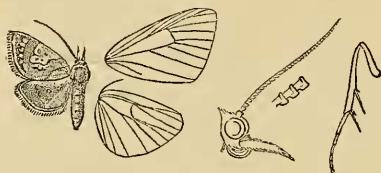
Genus 131. ATELOCENTRA.

Atelocentra Meyr. Trans. Ent. Soc. 1884, p. 323.

Palpi porrect, downcurved, extending about three times length of head, the 3rd joint hidden in hair; maxillary palpi dilated with

scales: antennæ laminate and with rings at the joints; hind tibiæ with the inner medial spur about $\frac{1}{5}$ th outer. Fore wing with vein 3 from before angle of cell; 4, 5 separate at origin. Hind wing with vein 3 from angle of cell; 4, 5 somewhat approximated for some distance; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 131.

*Atelocentra chloraspis*, ♂. †.

Type. *ATELOCENTRA CHLORASPIS Meyr. Trans. Ent. Soc. 1884, p. 323. Australia.

Genus 132. PROTOCOLLETIS.

Protocolletis Meyr. Trans. Ent. Soc. 1888, p. 223.

Palpi porrect, downcurved, extending more than twice the length of head, fringed with rough hair above and below, the 3rd joint concealed; maxillary palpi triangularly scaled; frons rounded; antennæ of male ciliated; hind tibiæ with the outer medial spur one half length of inner. Fore wing with veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9; 10 anastomosing with 8, 9, or free. Hind wing with vein 3 from angle of cell; 4, 5 approximated for a short distance; 6, 7 shortly stalked, 7 anastomosing with 8 to two-thirds of wing.

Fig. 132.

*Protocolletis constricta*, ♂. †.

Type. (1)†PROTOCOLLETIS CONSTRICTA Butl. Trans. Ent. Soc. 1882, p. 40. Hawaii.
(2)†PROTOCOLLETIS LITOREA Butl. E. M. M. xix. p. 178. Hawaii.

Genus 133. ADENA.

Adena Wlk. xxvii. 197 (1863).

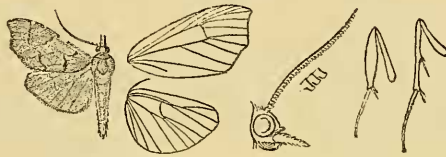
Deana Butl. A. M. N. H. (5) iv. p. 451 (1879).

Nesarcha Meyr. Trans. Ent. Soc. 1884, p. 330.

Palpi porrect, rostriform, downcurved, extending about twice the

length of head, the 3rd joint hidden by hair; maxillary palpi strongly dilated with scales; frons flat and oblique; antennæ of male laminate; mid tibiæ dilated; hind tibiæ of male with the inner spurs minute. Fore wing with the apex produced and acute; the termen produced to an angle at middle; vein 3 from before angle of cell; 4, 5 from angle; 7 curved and somewhat approximated to 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 stalked, 7 anastomosing with 8.

Fig. 133.

*Adena hybreasalis*, ♂. †.

Type. †*ADENA HYBREASALIS* Wlk. xviii. 797. New Zealand.
 †*Scopula paronalis* Wlk. xviii. 797.
 †*Adena xanthialis* Wlk. xxvii. 198.

Auctorum.

Nesarcha bilunalis Snell. Tijd. v. Ent. xxxviii. p. 153. Java.

Genus 134. CALAMOCHROUS.

Calamochrous Led. Wien. Ent. Mon. 1863, p. 386.

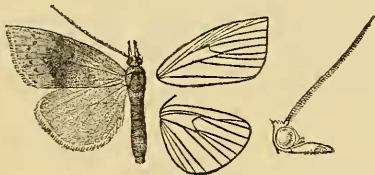
Sclerocona Meyr. Trans. Ent. Soc. 1890, p. 445.

Notaspis Warr. A. M. N. H. (6) ix. p. 297 (1891).

Dicepolia Snell. Tijd. v. Ent. xxxv. p. 158 (1893).

Palpi porrect, long and downcurved, the 3rd joint hidden; frons oblique; maxillary palpi dilated with scales; antennæ of male minutely ciliated; tibiæ with the spurs long. Fore wing with the

Fig. 134.

*Calamochrous tranquillalis*, ♂. †. (From Moths Ind. vol. iv.)

apex somewhat produced; vein 3 from near angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with the cell short; veins 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

SECT. I. (*Sclerocona*). Fore wing of male with the retinaculum formed by a large valve of scales below the cell, the median nervure bent upwards; a hyaline streak above base of vein 7, which is bent downwards; vein 10 anastomosing with 8, 9 (abnormally absent and 11 anastomosing with 8, 9).

(1) CALAMOCHROUS ACUTELLUS Ev. Bull. Mosc. 1842, p. 563.

S.E. Europe; Japan; China.

Duponchelia ciliialis H.-S. iv. p. 8, f. 60.

† *Crambus sinensellus* Wlk. xxvii. 167.

† „ *tincticostellus* Wlk. xxvii. 167.

SECT II. Fore wing of male normal.

A. (*Notaspis*). Maxillary palpi strongly dilated with scales.

(2) CALAMOCHROUS TRANQUILLALIS Led. Wien. Ent. Mon. 1863,
p. 371, pl. 9. f. 16. N.E. India; Ternate.

(3) CALAMOCHROUS FERRUGINALIS Hmps. Moths Ind. iv. p. 420.
Sikhim.

(4)† CALAMOCHROUS CARNEALIS Swinh. A. M. N. H. (6) xvi. p. 302.
Assam.

(5)† CALAMOCHROUS RUFICOSTALIS Hmps. Moths Ind. iv. p. 420.
Sikhim.

(6)† CALAMOCHROUS ROSEOBRUNNEA Warr. Trans. Ent. Soc. 1889,
p. 260. Brazil.

B. (*Calamochrous*). Maxillary palpi slightly dilated with scales.

(7)† CALAMOCHROUS DICHROMA Moore, Lep. Atk. p. 223. Sikhim.

„ *brevipalpis* Snell. Trans. Ent. Soc. 1890, p. 599.

Type. (8) CALAMOCHROUS CHILONALIS Led. Wien. Ent. Mon. 1863,
p. 387, pl. 12. f. 10. Venezuela.

(9)† CALAMOCHROUS STRAMINEA Warr. A. M. N. H. (6) ix. p. 393.
California.

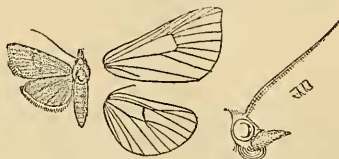
Genus 135. CYBOLOMIA.

Cybolomia Led. Wien. Ent. Mon. 1863, p. 420.

Hypolais Guen. Delt. & Pyr. p. 239 (1854), procc.

Palpi porrect, triangularly scaled, the 3rd joint concealed

Fig. 135.



Cybolomia pentadalis, ♂. †.

maxillary palpi with a long pointed tuft in front; frons flat and oblique; antennæ of male thickened and laminate; hind tibiæ with the outer medial spur about one-third length of inner. Fore wing with veins 3, 4, 5 separate at origin; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 stalked, 7 anastomosing shortly with 8.

SECT. I. Hind wing with veins 4, 5 somewhat approximated for a short distance.

(1)†CYBOLOMIA OSSEALIS, n. sp.

Pale ochreous; palpi brown at sides; frons with lateral white lines; abdomen whitish. Fore wing irrorated with a few brown scales; the costal and terminal areas purplish brown; brown points near base and middle of cell and a diffused discoidal lunule; a postmedial series of points excurved between veins 7 and 5 and at vein 3, then retracted to below angle of cell. Hind wing white, with indistinct postmedial series of brown points on the veins, retracted at vein 2 to below angle of cell; the termen brown from apex to vein 2.

Hab. Ecuador, Loja. *Exp.* 24 mm.

Subsp. 1. Abdomen and hind wing pale ochreous.

Hab. Mexico, Orizaba (*Schaus*). *Exp.* 20 mm.

SECT. II. Hind wing with veins 4, 5 not approximated.

(2) CYBOLOMIA NEMAUSALIS Dup. Léop. Fr. viii. p. 377, pl. 236.
f. 7. S. Europe.

Scopula argillacealis Zell. Isis, 1847, p. 579.

(3) CYBOLOMIA DULCINALIS Tr. Schmett. Eur. x. 3, p. 35.
S.E. Europe; W. Asia.

Type. (4) CYBOLOMIA PENTADALIS Led. Verh. z.-b. Ver. Wien, 1855,
p. 217, pl. 3. f. 13. W. Asia.

(5) CYBOLOMIA LUTOSALIS Mann. Wien. Ent. Mon. 1862, p. 387,
pl. 3. S. Europe; W. Asia.

(6)†CYBOLOMIA INGLORIALIS Zell. ? MS. Scharud.

(7) CYBOLOMIA SICCALIS Guen. Delt. & Pyr. p. 240, pl. 7. f. 10.
Botys glyceralis Stgr. S. E. Z. 1859, p. 220. S. Europe.
,, *sexpunctalis* Chrét. Le Nat. 1891, p. 67.

(8) CYBOLOMIA FRACTILINEALIS Chr. Hor. Ent. Ross. x. p. 42.
Persia; Turkestan.

(9)†CYBOLOMIA ALBILINEALIS Hmps. P. Z. S. 1896, p. 274, pl. 10.
f. 4. Aden.

(10)†CYBOLOMIA EXTORRIS Warr. A. M. N. H. (6) ix. p. 395.
U.S.A.

Auctorum.

Cybolomia gratiosalis Rom. Mém. iii. p. 40, pl. ii. f. 9.
Turkestan.

Genus 136. PROCHORISTIS.

Prochoristis Meyr. Trans. Ent. Soc. 1890, p. 458.

Palpi porrect, triangularly scaled, the 3rd joint concealed; maxillary palpi triangularly dilated with scales; frons rounded; antennæ of male thickened and laminate; mid tibiæ of male dilated with a groove and tuft; hind tibiæ with the outer medial spur one-half length of inner. Fore wing with the apex somewhat produced; veins 3, 4, 5 well separated at origin; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6 from below upper angle; 7 anastomosing with 8.

Fig. 136.



Prochoristis rupicapralis, ♂. †

- Type.* (1) PROCHORISTIS RUPICAPRALIS Led. Verh. z.-b. Ver. Wien, 1855, p. 218, pl. 3. f. 12. W. Asia.
- (2) PROCHORISTIS CAPPARIDIS Christ. Hor. Ent. Ross. xii. 1876, p. 272, pl. 7. f. 43. Turkestan.
- Botys daghestanica* Christ. Hor. Ent. Ross. xii. p. 273, f. 44 (var.).

Auctorum.

Ebulea simplicialis Brem. Ost-Sib. p. 71, pl. 6. f. 13. Amur.

Genus 137. CYNÆDA.

Cynæda Hübn. Verz. p. 346 (1827).

Odontia Dup. viii. p. 83 (1831).

Palpi porrect, extending about the length of head, triangularly

Fig. 137.



Cynæda dentalis, ♂. †

scaled, the 3rd joint hidden in hair; maxillary palpi strongly dilated with scales; frons rounded; antennæ of male strongly

ciliated; tibiæ with the outer spurs two-thirds length of inner. Fore wing with a large tuft of rough hair on inner margin before middle; vein 3 from before angle of cell; 4, 5 separate at origin; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 well separated at origin; 6, 7 from upper angle, 7 anastomosing with 8.

Type. (1) *CYNÆDA DENTALIS* Schiff. Wien. Verz. p. 120; & Dup. Lép. Fr. viii. pl. 215. f. 1. Europe; W. Asia.

Noctua fulminans Fabr. Ent. Syst. no. 311.

Phalæna ramalis Fabr. Ent. Syst. no. 378.

Noctua radiata Esp. iv. p. 374.

(2) *CYNÆDA FURIOSA* Stgr. List, xxxiii. Syria.

Auctorum.

Odontia exoticalis Snell. Tijd. v. Ent. xviii. p. 191, pl. xi. f. 3.

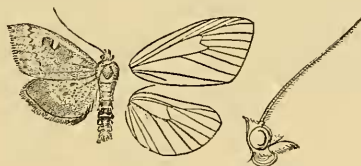
W. Indies.

Genus 138. MNESICTENA.

Mnesictena Meyr. Trans. Ent. Soc. 1884, p. 328.

Palpi porrect, extending about one and a half times length of head, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi strongly dilated with scales; frons rounded; antennæ of male minutely ciliated; tibiæ with the outer spurs two-thirds length of inner. Fore wing with vein 3 from before angle of cell; 4, 5 separate at origin; 7 straight and well separated from 8, 9. Hind wing with the median nervure loosely pectinated; vein 3 from near angle of cell; 4, 5 separate at origin; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 138.



Mnesictena quadralis, ♂. †.

Type. (1) *MNESICTENA QUADRALIS* Doubl. Dieff. N. Zeal. i. p. 288. New Zealand.

„ *marmorina* Meyr. Trans. Ent. Soc. 1884, p. 329.

(2)†*MNESICTENA NOTATA* Butl. Cist. Ent. ii. p. 493. New Zealand.

(3) *MNESICTENA FLAVIDALIS* Doubl. Dieff. N. Zeal. i. p. 287.

†*Scopula dipsasalis* Wlk. xviii. 796.

New Zealand.

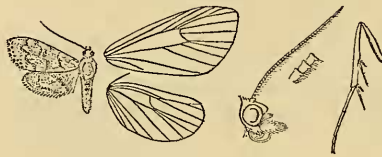
Botys otagalus Feld. Reis. Nov. pl. 134. f. 35.

Genus 139. EXERISTIS.

Exeristis Meyr. Trans. Ent. Soc. 1886, p. 266.

Palpi porrect, triangularly and roughly scaled, the 3rd joint hidden; maxillary palpi dilated with scales; frons with rounded prominence; antennæ ciliated and annulated; hind tibiæ with the outer medial spur minute in both sexes. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell.

Fig. 139.



Exeristis asyphela, ♂. †.

SECT. I. Hind wing with veins 6, 7 stalked; 7 anastomosing with 8 to near apex.

Type. (1)†EXERISTIS ASYPHELA Meyr. Trans. Ent. Soc. 1886, p. 266.
Tonga.

SECT. II. Hind wing with veins 6, 7 from angle of cell; 7 anastomosing with 8 to two-thirds of wing.

(2)†EXERISTIS XANTHOTA Meyr. Trans. Ent. Soc. 1886, p. 267.
Fiji.

Genus 140. MONOCONA.

Monocona Warr. A. M. N. H. (6) ix. p. 173 (1892).

Palpi porrect, clothed with very long hair below, the 3rd joint hidden; maxillary palpi dilated with hair; frons with long corneous

Fig. 140.



Monocona rubralis, ♂. †.

prominence with vertical edge excised in front; antennæ ciliated tibiæ roughly scaled, the spurs moderate. Fore wing with veins

3, 4, 5 separate; 7 straight and well separated from 8, 9; (10 on right-hand side of one specimen forking and giving rise to an extra vein). Hind wing with veins 2 and 3 from near angle of cell; 4, 5 from angle; discocellulars very oblique; 6, 7 from upper angle, anastomosing with 8.

Type. †*MONOCONA RUBRALIS* Warr. A. M. N. H. (6) ix. p. 174 (1892).
California.

Genus 141. *ENDOLOPHIA*, nov.

Palpi downcurved, extending about twice the length of head, the 3rd joint hidden in hair; maxillary palpi dilated with scales; frons with pointed conical prominence; antennæ ciliated; mid and hind tibiæ with the outer spur about two-thirds length of inner. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9; 10, 11 from cell; a large scale-tooth on middle of inner margin. Hind wing with the cell short; vein 3 from angle; 4, 5 stalked; 6, 7 from upper angle.

Fig. 141.



Endolophia rufitinctalis, ♂. †.

Type. †*ENDOLOPHIA RUFITINCTALIS*, n. sp.

♂. Ferruginous red; palpi tinged with fuscous; sides of frons and antennæ greyish; front of pectus, fore tarsi, and mid and hind legs almost pure white; abdomen pale rufous, with whitish segmental rings. Fore wing with the costa darker; a curved antemedial line; a discoidal spot; the postmedial line excurved to vein 3, then incurved; scale-tooth black; a terminal black line; cilia white at tips, except at apex and tornus. Hind wing yellowish white, the veins and termen tinged with brown.

Hab. Jalapa, Mexico (*Schaus*). *Exp.* 16 mm. Types in B.M. and Coll. *Schaus*.

Genus 142. *AUTOCOSMIA*.

Autocosmia Warr. A. M. N. H. (6) ix. p. 432 (1892).

Palpi porrect, triangularly scaled, extending about the length of head, and the 3rd joint hidden by hair; maxillary palpi filiform; frons with a conical prominence; antennæ of female nearly simple; hind tibiæ with the outer spurs half the length of inner. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with vein 3

from angle of cell; 4, 5 stalked; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 142.

*Autocosmia concinna*, ♀. $\frac{3}{4}$.

Type. (1)†AUTOCOSMIA CONCINNA Warr. A. M. N. H. (6) ix. p. 433.

(2) AUTOCOSMIA OTIOSALIS Led. Wien. Ent. Mon. 1863, p. 373, U.S.A.
pl. 10. f. 10. Brazil.

Genus 143. CRIOPHTHONA.

Criophthona Meyr. Trans. Ent. Soc. 1884, p. 339.

Palpi porrect, straight, rather long, roughly scaled, the 3rd joint hidden; maxillary palpi dilated with scales; frons with long truncate conical prominence; antennæ ciliated; hind tibiæ with the outer spurs about half the length of inner. Fore wing with veins 3, 4, 5 from angle of cell; 7 straight and well separated from 8, 9. Hind wing with vein 3 from before angle of cell; 6, 7 shortly stalked, 7 anastomosing with 8.

Fig. 143.

*Criophthona finitima*, ♂. $\frac{3}{4}$.

SECT. I. Antennæ with the shaft roughly scaled above; hind wing with veins 4, 5 from angle of cell.

(1)*CRIOPHTHONA HALLAPHRA Meyr. Trans. Ent. Soc. 1884, p. 340.
Australia.

SECT. II. Antennæ with the shaft smoothly scaled; hind wing with vein 5 from above angle of cell.

Type. (2)*CRIOPHTHONA FINITIMA Meyr. Trans. Ent. Soc. 1884, p. 340.
Australia.

(3)*CRIOPHTHONA HARMODIA Meyr. Trans. Ent. Soc. 1887, p. 243.
Australia.

Genus 144. TITANIO.

Titanio Hübn. Verz. p. 350 (1827).

Eurrhysis Hübn. Verz. p. 351.

Metaxmeste Hübn. Verz. p. 351.

Catharia Led. Wien. Ent. Mon. 1863, p. 353.

Palpi porrect, fringed with extremely long hair below, the 3rd joint hidden; maxillary palpi with long hair at extremity; frons with rounded prominence, clothed with rough hair; antennæ ciliated; legs moderately hairy, the spurs nearly equal; wings short and broad. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight. Hind wing with the cell short; 3, 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 144.



Titanio normalis, ♂. ♀.

- (1) TITANIO POLLINALIS Schiff. W. V. p. 124. U.S.A.; S. Europe;
Noctua bigutta Schaeff. Icon. pl. 275. ff. 5, 6. Australia.
 †*Ennychia melissalis* Wlk. xvii. 331.
 †*Botis flavinotalis* Grote, Can. Ent. xiii. p. 34.
 „ *guttulalis* H.-S. iv. p. 16, ff. 96, 97.

- (2) TITANIO SARTALIS Hübn. Pyr. ff. 173, 174. W. Asia.
Hercyna caucalis H.-S. N. Schmett. p. 11, ff. 76, 77.

- (3) TITANIO MAGNIFICALIS Christ. Hor. Ent. Ross. xii. p. 266, pl. 7.
 f. 35. Turkestan.

- (4) TITANIO VENUSTALIS Led. Verh. z.-b. Ver. Wien, 1855, p. 250;
 Rom. Mém. iii. pl. 1. f. 10. Greece; W. Asia.
 „ *echinea* Meyr. Ent. Mo. Mag. (2) ii. p. 50.

- Type.* (5) TITANIO NORMALIS Hübn. Pyr. ff. 41, 110. S. Europe.
Pyralis comitalis Hübn. Pyr. f. 180.

- (6) TITANIO ORIGINALIS H.-S. N. Schmett. p. 11, f. 78. W. Asia.

- (7) TITANIO EPHIPPIALIS Zett. Ins. Lap. 971. Labrador;
Boreophila frigidalis Guen. Delt. & Pyr. p. 157. N. Europe.
 „ *scandinavalis* Guen. Delt. & Pyr. p. 156.

- (8) TITANIO PYRENÆALIS Dup. Lép. Fr. iv. p. 400, pl. 82. f. 6.
Hercyna simplionalis H.-S. Eur. Schmett. iv. C. Europe.
 ff. 31-34.

- (9) TITANIO SCHRANKIANA Hockenw. Beitr. vi. p. 336, pl. vii. f. 6.
Noctua lugubrina Esp. iv. p. 189. C. Europe.
Pyralis holesericæalis Hübn. Pyr. f. 112.
- (10) TITANIO PHRYGIALIS Hübn. Pyr. f. 42. Europe.
Pyralis ruficolalis Hübn. Pyr. ff. 139 & 198-200.
Noctua monedula Esp. iv. pl. 197. ff. 5, 6.
Pyralis sericealis Hübn. Pyr. f. 43 (var.).
 „ *nevadalis* Stgr. S. E. Z. 1859, p. 220 (var.).
- (11)† TITANIO DAPHALIS Grote, Can. Ent. xiii. p. 17. U.S.A.

Auctorum.

- Botys bububattalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 149. U.S.A.
Titanio zachlora Meyr. E. M. M. (2) ii. p. 11. Algeria.
 „ *proximalis* Fern. Insect Life, vi. p. 256. California.
Hercyna cacuminalis Ev. F. V. U. p. 476. S. Russia; W. Asia.
Noctuomorpha modestalis Christ. Hor. Ent. Ross. xii. p. 267, pl. 7.
 f. 38. Turkestan.
Noctuomorpha pulchellalis Stgr. Deutsche E. Zeit., Lep. v. pl. iii.
 f. 20, & vi. p. 71. C. Asia.
Titanio eponyma Meyr. Trans. Ent. Soc. 1890, p. 454.
 Transcaucasus.
 = *Threnodes mœschleri* Rom. Mém. iii. p. 22, pl. 1. f. 11 (nec
 Christ.).
Hercyna heliothalis Stgr. Deutsche E. Zeit., Lep. v. pl. iii. f. 18
 & vi. p. 74. C. Asia.
 „ *paschalis* Stgr.? ined.
 „ *sultanalis* Stgr. Deutsche E. Zeit., Lep. v. pl. iii. f. 19
 & vi. p. 75. C. Asia.
 „ *sericatalis* H.-S. iv. p. 17, ff. 28-36. S.E. Europe.

Genus 145. METASIA.

Metasia Guen. Delt. & Pyr. p. 251 (1854).

Palpi porrect, triangularly scaled, the 3rd joint hidden; maxillary palpi dilated with scales; proboscis small; frons with a rounded

Fig. 145.



Metasia monialis, ♂. †. (From Moths Ind. vol. iv.)

prominence; antennæ nearly simple; tibiæ with the spurs equal. Fore wing rather long and narrow; vein 3 from well before angle

of cell; 7 straight and well separated from 8, 9; 10 also well separated from 8, 9. Hind wing with vein 3 from near angle of cell; 5 from above angle; 6, 7 from upper angle, 7 anastomosing with 8; median nervure somewhat pectinated above.

(1) *METASIA ALBULA*, n. sp.

Yellowish white; sides of palpi and head and prothorax tinged with brown; abdomen with dorsal black bands on 1st and subterminal segments. Fore wing with the costal area tinged with brown; the antemedial line represented by black points in and below cell; a prominent black spot below middle of vein 2; the postmedial line obscure, arising from a black point on costa, bent outwards between veins 5 and 2, then obsolete. Hind wing with indistinct postmedial line bent outwards between veins 5 and 2.

Hab. Amboina (*Doherty*). *Exp.* 14 mm. Types in Coll. Rothschild and B.M.

Type. (2) *METASIA SUPPANDALIS* Hübn. Pyr. f. 187. S. Europe; W. Asia.

(3)**METASIA HOMOGAMA* Meyr. Trans. Ent. Soc. 1887, p. 239.

W. Australia.

(4) *METASIA CARNEALIS* Tr. Schmett. Eur. vii. p. 91.

S. Europe; W. Asia.

„ *gigantalis* Stgr. Hor. Ent. Ross. 1870, p. 185, pl. 2.
f. 8 (var.).

(5) *METASIA CORSICALIS* Dup. Léop. Fr. viii. p. 306, pl. 230. ff. 6, 7.

S. Europe.

Stenia infidalis H.-S. ff. 39, 40.

(6) *METASIA OPHIALIS* Tr. Schmett. Eur. vii. p. 90, x. 3. p. 20.

S.E. Europe.

(7) *METASIA SABULOSALIS* Warr. A. M. N. H. (6) xviii. p. 217.

W. India.

(8)†*METASIA HODIUSALIS* Wlk. xviii. 706.

Amur; China;

Botys medialis Wlk. xxxiv. 1432.

Borneo; Sumbawa.

(9) *METASIA LIOPHLEA* Meyr. Trans. Ent. Soc. 1887, p. 241.

Australia.

(10)†*METASIA PROFANALIS* Wlk. xxxiv. 1403.

S. Africa.

(11)†*METASIA CRIOPHORA*, n. sp.

♂. Frontal process large; dark fuscous; palpi white at base. Fore wing strongly irrorated with dark brown; a dark spot in middle of cell and line from median nervure to inner margin; a dark mark on discocellulars; the postmedial line excurved between veins 5 and 2, then bent inwards to below angle of cell, both wings with series of dark points on termen and cilia.

Hab. Teita, E. Africa (*Jackson*). *Exp.* 16 mm.

- (12)**METASIA STRANGALOTA* Meyr. Trans. Ent. Soc. 1887, p. 240.
Australia.
- (13)**METASIA AFRARCHA* Meyr. Trans. Ent. Soc. 1887, p. 239.
W. Australia.
- (14)**METASIA ATELOXANTHA* Meyr. Trans. Ent. Soc. 1887, p. 242.
Australia.
- (15)**METASIA HEMICIRCA* Meyr. Trans. Ent. Soc. 1887, p. 271.
Tasmania.
- (16) *METASIA CAPNOCHROA* Meyr. Trans. Ent. Soc. 1887, p. 241.
Australia; Tasmania.
- (17) *METASIA HOMOPHŒA* Meyr. Trans. Ent. Soc. 1885, p. 449.
Australia; Tasmania.
- (18)†*METASIA SEGESTUSALIS* Wlk. xviii. 793. Australia.
- (19) *METASIA FAMILIARIS* Meyr. Trans. Ent. Soc. 1884, p. 336.
Australia.
- (20)†*METASIA PRIONOGRAMMA* Meyr. Trans. Ent. Soc. 1886, p. 265.
N. Guinea.
- (21) *METASIA OCHROCHROA* Meyr. Trans. Ent. Soc. 1887, p. 238.
Australia.
- (22)**METASIA XENOGAMA* Meyr. Trans. Ent. Soc. 1884, p. 337.
Australia.
- (23)**METASIA ZINCKENIALIS*, n. sp.

♂. Black; palpi white below; frons with white points; abdomen with white band on 1st segment, white lateral and ventral lines and patch on anal tuft. Fore wing with white basal points; a point at middle of cell with spot below it connected with inner margin by a line; a small quadrate spot in end of cell, with larger spot below end and bifid spot beyond discocellulars; an interrupted postmedial white line bent outwards between veins 5 and 2; cilia with pairs of white spots below apex and above tornus. Hind wing with white subbasal band; a quadrate spot in end of cell connected with inner margin by a band; the postmedial line represented by two points below costa and three between veins 5 and 2; cilia with white spots above and below middle.

♀. Abdomen with the white lateral and ventral lines slight. Fore wing without basal points or point in cell; the spots below cell small and without lines to inner margin; the postmedial line represented by points on costa and between median nervules. Hind wing with spot in cell and point on inner margin only.

Hab. Queensland, Dawson district (*Barnard*). *Exp.* 20 mm. Type in Coll. Rothschild.

- (24)**METASIA HAPLODES* Meyr. Trans. Ent. Soc. 1887, p. 197.
Australia.
- (25) *METASIA MONIALIS* Ersch, Hor. Ent. Ross. viii. p. 317, and
Lep. Turc. pl. 5. f. 83. C. Asia; N. India.

(26)†*METASIA HOLOXANTHIA*, n. sp.

♀. Bright orange-yellow; palpi and frons fuscous, the former white below. Fore wing with the costa rufous; dark points near base and in middle of cell, and a larger discoidal spot. Hind wing with discoidal dark point; both wings with postmedial series of dark points excurved between veins 5 and 4; a terminal series of dark points on rufous marks; cilia fuscous.

Hab. Estcourt, Natal (*Hutchinson*). *Ecp.* 22 mm.

Auctorum.

- Metasia octogenalis* Led. Wien. Ent. Mon. 1863, p. 421, pl. 15.
f. 10. W. Asia.
- „ *ochrifascialis* Christ. Hor. Ross. xvii. p. 121. Turkestan.
- „ *ossealis* Stgr. Hor. Ross. xv. p. 182. W. Asia.
- „ *mendicilis* Stgr. Hor. Ross. xv. p. 183. W. Asia.
- Stenia viperalis* Guen. Réunion, p. 62. Mauritius.
- „ *adelalis* Guen. Delt. & Pyr. p. 245. S. France.
- Metasia oblienalis* Guen. Delt. & Pyr. p. 251. S. France.
- „ *euencalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 171. Spain.
- „ *argalis* Fern. Insect Life, vi. p. 256. California.
- „ *quadristrigalis* Fern. Insect Life, vi. p. 257. California.
- „ *rosealis* Rag. Bull. Soc. Ent. Fr. 1895, p. xviii. Syria.
- „ *deltoidalis* Snell. Tijd. v. Ent. xviii. p. 243, pl. xiii. f. 16.
Bogota.
- „ *lilliputalis* Snell. Tijd. v. Ent. xxiii. p. 229, and xxvii.
pl. iii. f. 8. Celebes.
- „ *acharis* Meyr. Trans. Ent. Soc. 1889, p. 518.
New Guinea.
- „ *inustalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 169. Persia.
- „ *virginalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 170. Persia.
- „ *ibericalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 170. Spain.

Genus 146. *PIONEA*.

- Hapalia* Hübn. Verz. p. 355 (1827), non descr.
- Oëbia* Hübn. Verz. p. 362 (1827), non descr.
- Pionea* Guen. Delt. & Pyr. p. 367 (1854).
- Udea* Guen. Delt. & Pyr. p. 398.
- Stantira* Wlk. Cat. xxvii. p. 76 (1863).
- Nomis* Motsch. Et. 1860, p. 38.
- Cindaphia* Led. Wien. Ent. Mon. 1863, p. 438.
- Osiriaca* Wlk. xxxiv. 1493 (1865).
- Perispasta* Zell. Verh. z.-b. Ver. Wien, 1875, p. 331.
- Pseudobulea* Butl. Trans. Ent. Soc. 1881, p. 587.
- Melanomecyna* Butl. E. M. M. xix. p. 179 (1883).
- Microstega* Meyr. Trans. Ent. Soc. 1890, p. 450.
- Idioblasta* Warr. A. M. N. H. (6) viii. p. 62 (1891).
- Aglaops* Warr. A. M. N. H. (6) ix. p. 298 (1892).
- Sericoplaga* Warr. A. M. N. H. (6) ix. p. 296.
- Prodasygnemis* Warr. A. M. N. H. (6) ix. p. 301.

Mimudea Warr. A. M. N. H. (6) ix. p. 440.

Lepidoplaga Warr. A. M. N. H. (6) xvi. p. 475 (1896).

Palpi porrect, triangularly scaled, the 3rd joint concealed; maxillary palpi strongly dilated with scales at extremity; frons rounded; antennæ of male usually minutely ciliated. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with the cell short; vein 3 from angle; 4, 5 approximated for a short distance; 6, 7 stalked; 7 anastomosing with 8.

Fig. 146.



Pionea ferrugalis, ♂. ♀. (From Moths Ind. vol. iv.)

SECT. I. (*Lepidoplaga*). Fore wing of male with the retinaculum consisting of a fan of large scales.

A. Fore wing of male with a fan of large scales beyond upper angle of cell at bases of veins 6, 7.

a. Fore wing of male with the fans of scales showing above as small dark foveas.

(1)†*PIONEA FLAVOFIMBRIATA* Moore, Lep. Atk. p. 208.

N.E. India; Ceylon.

Crocidophora flavicinctalis Snell. Trans. Ent. Soc. 1890, p. 595.

Lepidoplaga longicarpus Warr. A. M. N. H. (6) xviii. p. 108.

„ *elongalis* Warr. A. M. N. H. (6) xviii. p. 108.

(2)**PIONEA FUSCIZONALIS* Hampsn. Moths Ind. iv. p. 428. Sikhim.

b. Fore wing of male with no foveas on upperside.

(3) *PIONEA PHENICISTIS* Hampsn. Moths Ind. iv. p. 428.

N.E. India; Burma.

B. Fore wing of male with large hyaline fovea beyond upper angle of cell, vein 7 curved down round it.

(4)†*PIONEA THYRIPHORA*, n. sp. (1898, Plate L. fig. 26.)

Bright orange; palpi white at base; pectus and ventral surface of abdomen whitish. Fore wing with the costal area suffused with purplish brown; the terminal area purplish. Hind wing with the costal and inner areas whitish; a purplish band on terminal area from costa to vein 2.

Hub. Castro Paraña, Brazil (*Jones*). *Exp.* 26 mm.

(5)†*PIONEA ECTOXANTHIA*, n. sp.

♂. Head, thorax, and abdomen pale brown; palpi white at base; sides of frons with white lines. Fore wing purplish, with flesh-coloured patches on inner area at base and beyond middle; the terminal area orange except on costa, widening from tornus to below costa. Hind wing whitish; the termen yellowish, with faint fuscous band before it.

Hab. Castro Paraña, Brazil (*Jones*). *Exp.* 22 mm.

c. Fore wing of male with no fan of scales or fovea beyond upper angle of cell.

(6)**PIONEA FLAVICILIALLIS* Snell. Trans. Ent. Soc. 1890, p. 596,
pl. xx. ff. 5, 5 a. Sikkim.(7)†*PIONEA CLAVIFERA*, n. sp.

♂. Head and thorax fuscous brown; abdomen paler. Fore wing with the fovea below base of cell, forming a large pouch on upperside with fan of scales above it; colour fuscous brown mixed with ochreous; the antemedial line represented by an oblique series of black points; black points at angles of cell and one above them on costa; the postmedial line arising from black point on costa, minutely waved and highly excurved from costa to vein 2, its outer edge defined by ochreous; a terminal series of points. Hind wing paler brown, with terminal series of minute dark points.

♀ with black claviform mark below cell of fore wing on outer edge of antemedial line; one specimen has the antemedial line defined by diffused white on inner side and the postmedial line placed on a diffused white area.

Hab. Australia, Peak Downs, Cooktown. *Exp.* 22 mm.

SECT. II. Fore wing of male with a large tuft of hair beyond upper angle of cell below.

(8) *PIONEA NYPSIUSALIS* Wlk. xix. 924. Borneo.

SECT. III. (*Perispasta*). Fore wing of male with a very large elongate hyaline fovea beyond upper angle above.

(9) *PIONEA CÆCULALIS* Zell. Verh. z.-b. Ver. Wien, 1875, p. 331,
pl. 10. f. 46 a. U.S.A.

†*Perispasta immixtalis* Grote, Can. Ent. xiii. p. 232.

„ *immaculalis* Grote, Smith's List Lep. Bor.-Am. p. 80.

SECT. IV. Fore wing of male with foveas below middle and in end of cell; hind tibiæ with the outer medial spur minute.

(10)**PIONEA PRAXITALIS* Druce, Biol.-Centr. Am., Het. ii. p. 205,
pl. 60. f. 17. Mexico; Centr. Amer.

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SECT. V. Fore wing of male with a fovea covered with hair below base of median nervure above; the costa of hind wing highly arched at base.

A. (*Nomis*). Hind tibiæ of male with the outer medial spur minute.

(11) *PIONEA ALBOPEDALIS* Motschl. Études, 1860, p. 38. Japan.

B. (*Microstega*). Hind tibiæ of male with the outer medial spur half the length of inner.

(12) *PIONEA PANDALIS* Hübn. Verz. p. 355. Europe; Japan.
Pyralis verbascalis Hübn. Pyr. f. 59.

„ *angustalis* Haw. Lep. Brit. p. 379.

„ *terminalis* Haw. Lep. Brit. p. 379.

† *Botys jessica* Butl. Ill. Het. ii. p. 58, pl. 39. f. 6.

† „ *protensa* Butl. Ill. Het. ii. p. 58, pl. 39. f. 7.

(13)† *PIONEA LUTEALIS* Warr. A. M. N. H. (6) ix. p. 439. Brazil.

(14)† *PIONEA CERVINALIS* Warr. A. M. N. H. (6) ix. p. 439. Brazil.

(15)† *PIONEA ARENACEA* Warr. A. M. N. H. (6) ix. p. 431. Brazil.

SECT. VI. Fore wing of male without foveas.

A. (*Prodasynemis*). Mid tibiæ of male with large tuft of recurved hair from extremity.

(16)† *PIONEA INORNATA* Butl. Ill. Het. iii. p. 76, pl. 59. f. 12. Japan.

B. (*Udea*). Hind tibiæ with the outer medial spur minute.

a. Mid tibiæ dilated with a fold and tuft.

(17) *PIONEA INSTITALIS* Hübn. Pyr. f. 182. S. Europe.
Botys ferraralis Dup. Léop. Fr. viii. p. 317, pl. 231. f. 6.

(18) *PIONEA CONFINALIS* Led. Wien. Ent. Mon. 1858, p. 149, pl. 4.
f. 4. E. Europe; W. Asia.
Botys græcalis Stgr. Hor. Ent. Ross. 1870, p. 199, pl. 11. f. 15.

(19) *PIONEA LANGUIDALIS* Ev. Bull. Mosc. 1842, iii. p. 559.
S.E. Europe; W. Asia.
Botys arabescalis, H.-S. N. Schmett. p. 12, f. 79.

(20) *PIONEA PROFUNDALIS* Pack. Ann. Lyc. N. Y. x. p. 261. U.S.A.

(21) *PIONEA FULVALIS* Hübn. Pyr. f. 147. Europe; C. Asia.

(22) *PIONEA RUBIGALIS* Guen. Delt. & Pyr. p. 398. U.S.A.
Botys oblunalis Led. Wien. Ent. Mon. 1863, p. 372.

† „ *harveyana* Grote, Can. Ent. ix. p. 104.

(23)* *PIONEA DEIDAMIALIS* Druce, Biol.-Centr. Am., Het. ii. p. 210,
pl. 60. f. 27. Mexico; Centr. Amer.

- (24) *PIONEA FERRUGALIS* Hübn. Schmett. Eur., Pyr. ff. 54, 150.
 Europe; W. Asia; Madeira; W. & S. Africa;
Scopula martialis Guen. Delt. & Pyr. Japan; Afghanistan;
 p. 398. India; Ceylon;
 „ *hypatialis* Wlk. xix. 1014. Burma.
 † „ *testacea* Butl. Ill. Het. iii. p. 77, pl. 59. f. 15.
- (25)**PIONEA OCTONALIS* Snell. Trans. Ent. Soc. 1890, p. 581.
 N.E. India.
- (26)†*PIONEA RENALIS* Moore, Lep. Atk. p. 224. Sikkim.
- (27)†*PIONEA DELINEATALIS* Wlk., Melliss's St. Helena, p. 189.
 St. Helena.
- (28) *PIONEA ELUTALIS* Schiff. Wien. Verz. p. 121. Europe.
Pyralis abidalis Hübn. Pyr. f. 118.
- (29) *PIONEA SILVALIS* Joannis, Bull. Soc. Ent. Fr. 1891, p. lxxxii;
 Mab. & Vuill. pl. xviii. f. 9. Syria.
- (30)†*PIONEA SCOPARIALIS*, n. sp.

♂. Head and thorax dark olive-brown and grey; abdomen grey-white. Fore wing grey-white, thickly irrorated and suffused with grey-brown to beyond middle and on terminal area, leaving a slightly irrorated broad postmedial whitish band; an obscure antemedial wavy white line curled outwards and forming a hook above inner margin; the orbicular and reniform very large, defined by black, and with black centres; a postmedial dark speck on costa, followed by an obliquely curved minutely-waved line; a terminal series of black points. Hind wing white, with black points at the two angles of cell; an indistinct curved postmedial line; an apical fuscous patch extending more or less to vein 2; a terminal series of black points; underside suffused with fuscous, with the post-medial line prominent and maculate.

Hab. Tibet, Yatong, 10,500 feet (*Hobson*). *Exp.* 24 mm.

- (31) *PIONEA PRUNALIS* Schiff. Wien. Verz. p. 121. Europe.
Pyralis leucophaealis Hübn. Pyr. f. 77.
 „ *nebulalis* Haw. Lep. Brit. p. 386.
- (32) *PIONEA SCORIALIS* Zell. Isis, 1847, p. 566. Sicily.
- (33) *PIONEA SOBRINALIS* Guen. Delt. & Pyr. p. 360. Brazil.
Ebulea ialis Wlk. xix. 1009.
- (34)†*PIONEA FUSCULALIS*, n. sp.

Head and thorax brown; abdomen fuscous, with whitish segmental lines; palpi at base, pectus, and ventral surface of abdomen whitish. Fore wing brown; an antemedial wavy black line obtusely angled below cell; a discoidal black lunule; a postmedial minutely-dentate black line excurved to vein 2, below which it is angled inwards almost to the cell, then bent outwards again. Hind

wing fuscous, with two black points on discocellulars; the post-medial line excurved between veins 5 and 2; both wings with terminal series of black points.

Hab. Mexico, Orizaba (*Schaus*); Peru, Callao. *Exp.* 24 mm.

(35)†*PIONEA OLIVALIS* Warr. A. M. N. H. (6) ix. p. 441. Brazil.

(36)†*PIONEA FLAVINOTATA* Warr. A. M. N. H. (6) ix. p. 441.

Brazil.

(37)†*PIONEA SUBROSEA* Warr. A. M. N. H. (6) ix. p. 441 (♀).

Brazil.

(38)†*PIONEA PHEALIS*, n. sp.

♂. Head and thorax dark brown and black; abdomen black, with pale segmental lines and anal tuft, the ventral surface pale with black points. Fore wing dark brown, irrorated and suffused with black; an indistinct sinuous antemedial line angled outwards below cell; obscure black annuli at middle of cell and on discocellulars; the postmedial line defined by ochreous on outer side, excurved between veins 6 and 2, then retracted to below angle of cell; some black points on costa towards apex and a terminal series of ochreous points. Hind wing fuscous, with two dark points on discocellulars; traces of a postmedial line excurved between veins 5 and 2; a terminal series of black points.

♀. Fore wing with the markings rather more distinct, with pale patches on inner area at postmedial line and on costa towards apex.

Hab. Mexico, Orizaba (*Schaus*). *Exp.* 20 mm.

(39)†*PIONEA STELLATA* Butl. E. M. M. xix. p. 179. Hawaii.

(40)†*PIONEA NIGRESCENS* Butl. A. M. N. H. (5) vii. p. 328 (1881).

Hawaii.

(41)†*PIONEA ENNYCHIOIDES* Butl. A. M. N. H. (5) vii. p. 328 (1881).

Hawaii.

(42)†*PIONEA MONTICOLANS* (-ENS) Butl. Trans. Ent. Soc. 1882, p. 34.

Hawaii.

(43)†*PIONEA MICACEA* Butl. A. M. N. H. (5) vii. p. 326 (1881).

Hawaii.

b. Mid tibiæ not dilated.

(44)†*PIONEA ANTIGASTRIDIA*, n. sp.

♀. Ochreous; head and thorax tinged with brownish; palpi white at base. Fore wing with fiery-red streaks on the veins and in interspaces; the costal area brownish; black points at middle of cell and on discocellulars; a postmedial fuscous line with black points on the veins running out to an obtuse angle on vein 5, then incurved to middle of inner margin, and with an obscure fuscous spot beyond it on costa; cilia blackish, white at tips. Hind wing yellowish white, with a rufous mark on termen at vein 2; dark lines on termen and cilia from apex to vein 2.

Hab. Orizaba, Mexico (*Schaus*). *Exp.* 24 mm.

(45) †PIONEA LEUCOCRASPIA, n. sp.

♂. Bright reddish fulvous; palpi white at base. Fore wing with obscure fuscous point in cell and discoidal lunule; the post-medial line indistinct, oblique from costa to vein 5, dentate to vein 2, then bent inwards to middle of inner margin; cilia fuscous at base, white at tips. Hind wing yellowish white, with a rufous patch on termen near vein 2; dark lines on termen and through cilia from apex to vein 2.

Hab. Brazil, São Paulo (*Jones*). *Exp.* 20 mm.

(46) PIONEA TESTACEALIS Zell. *Isis*, 1847, p. 571. S. Europe.

Botys ochrealis Dup. *Lép. Fr.* viii. p. 140, pl. 219. f. 1.

Ebulea rubrebralis Guen. *Delt. & Pyr.* p. 359.

(47) PIONEA CROCEALIS Hübn. *Pyr.* f. 71. Europe; W. Asia.

Pyralis ochrealis Hübn. *Pyr.* f. 146.

(48) PIONEA LUTEALIS Hübn. *Pyr.* f. 145. Europe.

Margaritia institialis Steph. *Ill.* iv. p. 56.

Scopula pascualis Zell. *Isis*, 1846, p. 206.

„ *etialis* Steph. *Cat. B. M.* p. 244.

(49) †PIONEA GRACILIS Warr. *P. Z. S.* 1888, p. 334. N.W. India.(50) PIONEA NIGROSTIGMALIS Warr. *A. M. N. H.* (6) xvii. p. 96.

N.E. India.

(51) PIONEA INQUINATALIS Zell. *Isis*, 1846, p. 205. Labrador;

Botys glacialis Pack. *Labr.* xi. p. 52.

Europe.

(52) PIONEA STACHYDALIS Zinck. *Germ. Fn.* iv. no. 18. Europe.(53) PIONEA BICOLORALIS Guen. *Delt. & Pyr.* p. 205. U.S.A.;

†*Endotricha julialis* Wlk. xvii. 389. W. Indies; S. Amer.

Cindaphia incensalis Led. *Wien. Ent. Mon.* 1863, p. 439, pl. 17. f. 8.

Botys facitalis Berg. *Bull. Mosc.* xlix. pt. 2, p. 224.

Botys amiculatalis Berg. *S. E. Z.* xxxvii. p. 343.

†*Pionea pulchripictalis* Hmps. *A. M. N. H.* (6) xvi. p. 341.

(54)*PIONEA ANGUSTALIS Feld. *Reis. Nov.* pl. 134. f. 26. Mexico.

C. (*Pionea*). Hind tibiæ of male with the outer medial spur well developed.

a. Mid tibiæ of male dilated with a fold and tuft.

(55) PIONEA VERBASCALIS Schiff. *Wien. Verz.* p. 121. Europe;

W. Asia; Japan; India; Ceylon.

Pyralis arcualis Hübn. *Pyr.* f. 80.

Botys plumbocitialis Snell. *Trans. Ent. Soc.* 1890, p. 576.

(56) †PIONEA POLIOSTICTA Hmps. *Journ. Bomb. Nat. Hist. Soc.*

ined.

Ceylon.

(57) †PIONEA MANDRONALIS Wlk. xix. 1014.

India; Ceylon.

- (58)†*PIONEA LEUCANALIS* Swinh. Trans. Ent. Soc. 1890, p. 276,
pl. 8. f. 15. Assam; Burma.
- (59)**PIONEA GENIALIS* Leech, Entom. 1889, p. 69, pl. 3. f. 10 (♀).
Japan.
- (60)†*PIONEA ALBICOSTALIS* Swinh. Trans. Ent. Soc. 1890, p. 271.
India; Burma.
- (61)**PIONEA PRÆPANDALIS* Snell. Trans. Ent. Soc. 1890, p. 573.
Sikhim.
- (62) *PIONEA AUREOLALIS* Led. Wien. Ent. Mon. 1863, p. 375.
India; Ceylon; Burma; Andamans.
†*Pyralis ochrealis* Moore, P. Z. S. 1877, p. 614.
Paliga contractalis Warr. A. M. N. H. (6) xviii. p. 113 (1896).
- (63) *PIONEA PLACENS* Wlk. xxxiv. 1416. Borneo.
- (64)†*PIONEA ALBIFIMBRIALIS* Wlk. xxxiv. 1446. China;
Formosa; Sumatra; Java.
Botys niveiciliaris Snell. Midd.-Sum., iv. Lep. p. 64.
- (65)†*PIONEA MINNEHAHA* Pryer, Cist. Ent. ii. p. 234, pl. 4. f. 9.
Japan; China.
- (66) *PIONEA TURIUSALIS* Wlk. xviii. 690. Borneo.
†*Botys braesialis* Wlk. xviii. 699.
,, *eriggsalis* Wlk. xix. 1005.
- (67) *PIONEA LUGUBRALIS* Leech, Entom. 1889, p. 67, pl. 3. f. 6 (♀).
Japan.
- (68)**PIONEA MINNITHALIS* Druce, Biol. Centr.-Am., Het. ii. p. 242,
pl. 62. f. 15. Centr. Amer.
- (69)†*PIONEA AURORA* Butl. A. M. N. H. (5) vii. p. 327 (1881).
Hawaii.
- (70)†*PIONEA DAICLESALIS* Wlk. xix. 1017. N. Zealand.
- (71)†*PIONEA FURNACALIS* Meyr. Trans. Ent. Soc. 1886, p. 254.
Fiji.
- (72) *PIONEA ORBICENTRALIS* Christ. Bull. Mosc. lvi. (1) p. 22.
Amur; Japan; N. China.
- b. Mid tibiae of male not dilated.
- (73)†*PIONEA RHODOCHRYSA* Meyr. Trans. Ent. Soc. 1885, p. 447.
Australia.
- (74) *PIONEA ROSINALIS* Guen. Delt. & Pyr. p. 342, pl. 9. f. 10.
Brazil.
- (75)†*PIONEA AURORINA* Butl. Ill. Het. ii. p. 58, pl. xxxix. f. 9.
Japan.
- (76)†*PIONEA PROLAUSALIS* Wlk. xix. 990. S. Africa.
- (77)†*PIONEA RHEXIALIS* Wlk. xviii. 624. Venezuela.
- (78)†*PIONEA FENTONI* Butl. Trans. Ent. Soc. 1881, p. 587.
Japan; India.

- (79)†*PIONEA PHIALUSALIS* Wlk. xix. 991. W. Africa.
- (80) *PIONEA NOBILIS* Moore, Lep. Atk. p. 224, pl. 7. f. 29. Sikhim.
- (81) *PIONEA AURATALIS* Warr. A. M. N. H. (6) xvi. p. 472 (1895). Japan.
- (82)†*PIONEA BREVIHALIS* Wlk. xviii. 759. India; Ceylon;
 †*Scopula eximialis* Wlk. xxxiv. 1471. N. Australia.
Botys divisalis Led. Wien. Ent. Mon. 1863, p. 372, pl. 10. f. 4.
Mnesictena pactolina Meyr. Trans. Ent. Soc. 1887, p. 234.
- (83)†*PIONEA EXTERNALIS* Warr. A. M. N. H. 1891, ii. p. 296. U.S.A.
- (84) *PIONEA CASTORALIS* Wlk. xviii. 693. S. India; Andamans;
 †*Samea purpurescens* Moore, P. Z. S. 1877, p. 615. Borneo.
- (85)†*PIONEA ABLACTALIS* Wlk. xviii. 660. India; Ceylon;
 Burma; Sumbawa; Amboina.
- (86)†*PIONEA TRIPARTALIS*, n. sp.
 ♂. Head and thorax bright red-brown mixed with dark brown;
 abdomen brown mixed with grey. Fore wing bright red-brown,
 thickly irrorated with grey and black scales, and divided into three
 equal parts by oblique straight ante- and postmedial grey lines.
 Hind wing pale yellowish, with some darker irroration on termen
 and a series of dark points.
Hab. Peru. *Exp.* 26 mm.
- Type.* (87) *PIONEA FORFICALIS* Linn. Syst. Nat. x. p. 533. Europe;
 C. Asia; Japan; Himalayas.
 † ,, *sodalis* Butl. Ill. Het. ii. p. 59, pl. 39. f. 4.
- (88) *PIONEA AFRICALIS* Guen. Delt. & Pyr. p. 370, and Oberth.
 Et. Ent. xii. pl. vii. f. 43. Sicily; Algeria; S. Africa.
Pionea zonalis Lah. Contr. p. 20.
 †*Rivula vicariialis* Wlk. xxxiv. 1155.
 †*Scopula concisalis* Wlk. xxxiv. 1470.
- (89)†*PIONEA INFUSCALIS* Zell. Caffr. p. 41. S. Africa.
- (90)†*PIONEA INCLUSALIS* Wlk. xxxiv. 1464. W. Indies;
 Honduras; Venezuela.
Eurycreon fuscociliialis Snell. Tijd. v. Ent. 1875, p. 210, pl. 13.
 f. 1.
- (91)†*PIONEA IMITANS* Warr. A. M. N. H. (6) ix. p. 299 (1891). Brazil.
- (92) *PIONEA OPALISALIS* Guen. Delt. & Pyr. p. 172. Brazil.
- (93) *PIONEA TENIOLALIS* Guen. Delt. & Pyr. p. 172. Brazil.
- (94)†*PIONEA EXUVIALIS* Guen. Delt. & Pyr. p. 172. W. Indies;
 Honduras; Brazil.
Botys sypaxialis Wlk. xviii. 604.

(95)†*PIONEA PHLÆOCHYSIS*, n. sp.

♂. Head and thorax dark brown; palpi white below; abdomen fuscous, with whitish segmental lines and large genital tufts. Fore wing dull brown; a wavy black antemedial line with red patch on its inner side below the cell; a dark point in cell and discoidal lunule; the area below and beyond the cell yellowish white irrorated with red, brown, and black scales; the postmedial line nearly straight, with diffused dark band on its outer side; a reddish subapical patch; a terminal series of black points. Hind wing hyaline white; a terminal fuscous band from apex to vein 2 and fine terminal line.

Hab. Ecuador, Loja. *Exp.* 24 mm.

(96) *PIONEA SYLVIALIS* Wlk. xviii. 615. Brazil.
Botys myopicalis Led. Wien. Ent. Mon. 1863, p. 370, pl. 8.
f. 11.

(97)†*PIONEA EUPALUSALIS* Wlk. xviii. 605. Venezuela.

(98)†*PIONEA VINOTINCTALIS* Hmps. A. M. N. H. (6) xvi. p. 340.
W. Indies.

(99)†*PIONEA SERIOPUNCTALIS* Hmps. A. M. N. H. (6) xvi. p. 341.
W. Indies.

(100)†*PIONEA FERRUGINEALIS* Warr. A. M. N. H. (6) ix. p. 431.
Brazil.

(101)**PIONEA DECEITALIS* Druce, Biol. Centr.-Am., Het. ii. p. 205,
pl. 60. f. 16. Centr. Amer.

(102) *PIONEA NERISSALIS* Wlk. xviii. 505. Brazil.

Botys graviusalis Wlk. xix. 986.

„ *nocmonalis* Wlk. xix. 987.

Scopula permixtalis Wlk. xxxiv. 1466.

†*Phlyctenia paolinialis* Warr. A. M. N. H. (6) ix. p. 431.

(103)†*PIONEA TATALIS* Grote, Can. Ent. ix. p. 106. U.S.A.

(104)**PIONEA DESISTALIS* Wlk. Trans. Ent. Soc. (3) i. p. 126.

(105) *PIONEA RUBIGINALIS* Hübn. Pyr. f. 79. Brazil.
Europe;

(106) *PIONEA STAIUSALIS* Wlk. xix. 945. W. Asia; Japan.
Colombia; Brazil.

Botys scitalis Led. Wien. Ent. Mon. 1863, p. 373, pl. 10. f. 11.

(107)†*PIONEA DESPECTA* Butl. E. M. M. xiv. p. 49. Hawaii.

†*Scopula exigua* Butl. E. M. M. xvii. p. 9.

(108)†*PIONEA HELVIUSALIS* Wlk. xviii. 786. S. America.

†*Scopula itylusalis* Wlk. xviii. 787.

†*Pionea fuscipalpalis* Wlk. xxxiv. 1457.

†*Scopula bogotalis* Wlk. xxxiv. 1463.

†*Crambus bogotanellus* Wlk. xxxv. 1754.

- (109)†PIONEA AMITINA Butl. Trans. Ent. Soc. 1883, p. 54. Chili.
 †*Scopula indistincta* Butl. Trans. Ent. Soc. 1883, p. 54.
 † „ *melanosticta* Butl. Trans. Ent. Soc. 1883, p. 55.
- (110)†PIONEA SABULOSALIS Warr. A. M. N. H. (6) ix. p. 393. Chili.
- (111)†PIONEA FUMIPENNIS Warr. A. M. N. H. (6) ix. p. 392. Juan Fernandez.
- (112)†PIONEA DICEALIS Wlk. xviii. 792. Australia.
- (113) PIONEA NUMERALIS Hübn. Pyr. f. 89. S. Europe; Armenia.
Scopula simplicella Lah. Contr. Faun. Sic. 51.
- (114) PIONEA NEBULALIS Hübn. Pyr. f. 51. Europe.
Pyralis squalidalis Hübn. Pyr. f. 144.
Scopula pinetalis Zett. Ins. Lapp. 970.
 „ *arcticalis* Zett. Ins. Lapp. 972.
Botys pratensis Zell. S. E. Z. 1841, p. 176.
- (115) PIONEA DECREPIDALIS H.-S. iv. p. 40, ff. 67, 61. Europe.
- (116)†PIONEA ITYSALIS Wlk. xix. 828. U.S.A.
 †*Stantira variegata* Wlk. xxvii. 76.
 †*Botis turmalis* Grote, Can. Ent. xiii. p. 33.
 „ *hyperborealis* Möschl. S. E. Z. xxxv. p. 163.
- (117)†PIONEA WASHINGTONIALIS Grote, Bull. U.S. Geol. Surv. U.S.A.
 vi. p. 577.
Botys invinctalis Hulst, Tr. Am. Ent. Soc. xiii. p. 152.
- (118)*PIONEA NOLALIS, n. sp.
 ♂. White; antennæ blackish; thorax irrorated with black. Fore wing with the basal half irrorated with black, especially below costa; a black point below base of costa; an antemedial black line interrupted in cell and at vein 1; a discoidal spot; the postmedial line excurved round cell, then retracted to below it; the subterminal line slightly curved, with short lines beyond it from costa and at tornus; a prominent series of terminal points from apex to vein 2. Hind wing semihyaline, the terminal area slightly suffused with fuscous.
Hab. S. Celebes (*Doherty*). *Exp.* 20 mm. Type in Coll. Rothschild.
- (119)†PIONEA LACTEATA Warr. A. M. N. H. (6) viii. p. 62 (1891). Marquesas.
- (120)†PIONEA STRAMINATA Warr. A. M. N. H. (6) viii. p. 62. Marquesas.
- (121) PIONEA OLIVALIS Schiff. Wien. Verz. p. 123. Europe;
Pyralis nivealis Haw. Lep. Brit. p. 385. Armenia.
 „ *unbralis* Hübn. Pyr. f. 52.
- (122)†PIONEA INDISTINCTALIS Warr. A. M. N. H. (6) ix. p. 394. U.S.A.

- (123) *PIONEA CYANALIS* Lah. Pyr. p. 30. Europe.
 (124)†*PIONEA DETERSALIS* Wlk. xxxiv. 1465. Venezuela; Peru.
 (125)†*PIONEA MITIS* Butl. Trans. Ent. Soc. 1883, p. 53. Chili.
 (126)**PIONEA AUTOCLESALIS* Wlk. xix. 985 (♀). Brazil.
 (127)†*PIONEA INHOSPITALIS* Warr. A. M. N. H. (6) ix. p. 394. U.S.A.
 (128)†*PIONEA THYALIS* Wlk. xviii. 667. China.
 (129) *PIONEA LEUCOSTICTALIS*, n. sp.

♀. Fuscous; palpi blackish, white at base; pectus, legs, and ventral surface of abdomen white, fore tibiae and tarsi banded with black. Fore wing with traces of antemedial line; a dark discoidal point; an indistinct postmedial line excurved from costa to vein 2, where it is retracted to below angle of cell; the outer half of costa with five very prominent pure white spots. Hind wing with indistinct postmedial line, obsolete towards costa and slightly retracted at vein 2; both wings with fine dark terminal line; cilia of hind wing white at tips.

Hab. Cooktown, Queensland (*Meek*). *Exp.* 20 mm. Types in Coll. Rothschild and B.M.

Auctororum.

- Nomis tessellalis* Motschl. Études, 1860, p. 38. Japan.
Scopula argyroscelis Meyr. Trans. Ent. Soc. 1888, p. 222. Hawaii.
 „ *eucrena* Meyr. Trans. Ent. Soc. 1888, p. 218. Hawaii.
Pionea conquiritalis Guen. Alg. iii. p. 403, pl. 4. f. 9. Algeria.
Botys assutalis Led. Wien. Ent. Mon. 1863, p. 370, pl. 8. f. 14. Venezuela.
 „ *subochracealis* Pag. J.B. Nass. Ver. 1884, p. 268. Amboina.
 „ *integralis* Led. Wien. Ent. Mon. 1863, p. 373, pl. 10. f. 12. Venezuela.
 „ *tritialis* Christ. Bull. Mosc. lvi. (1) p. 20. Amur; N. China.
Scopula illutalis Guen. Delt. & Pyr. p. 400 = *dilutalis* Guen. Algeria, p. 401, pl. 4. f. 6; Oberth. Et. Ent. xii. pl. vii. f. 45. Algeria.
 „ *dispunctalis* Guen. Delt. & Pyr. p. 396 = *bipunctalis* H.-S. ff. 140, 141. S. Europe; Armenia.
Botys costalis Ev. Bull. Mosc. 1852, p. 166 = *hilaralis* Christ. Bull. Mosc. lvi. (1) p. 23. Siberia.
 „ *perochrealis* Christ. Rom. Mém. iii. p. 35, pl. ii. f. 6. Armenia.
 „ *varialis* Brem. Mém. Acad. St. Pétersb. viii. p. 69, pl. 6. f. 9. Siberia.
Scopula concoloralis Oberth. Et. Ent. i. p. 68, pl. 2. f. 6. Algeria.
Cindaphia impuralis Snell. Tijd. v. Ent. xviii. p. 264, pl. xiv. f. 10. W. Indies.
Pionea terminalis Mab. Ann. Soc. Ent. Fr. (5) ix. p. 338. Madagascar.

Genus 147. PARATALANTA.

Paratalanta Meyr. Trans. Ent. Soc. 1890, p. 440.

Palpi porrect, extending about the length of head, triangularly scaled; the 3rd joint hidden with hair; maxillary palpi almost filiform; frons rounded; antennæ of male ciliated; mid tibiæ dilated with a fold containing a tuft of long hair and a fringe of scales; hind tibiæ with the outer spurs half the length of inner. Fore wing of male very long and narrow, the outer margin oblique, a strong costal fold on basal half; vein 3 from before angle of cell; 4, 5 separate; 7 curved and approximated to 8, 9. Hind wing of male with the outer margin somewhat excised from vein 3 to near anal angle, which is lobed; the cell short; veins 3, 4, 5 from close to angle; 6, 7 shortly stalked, 7 anastomosing with 8.

Fig. 147.



Paratalanta ussuralis, ♂. 1.

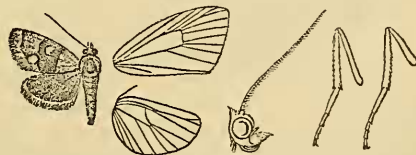
- Type.* PARATALANTA USSURALIS Brem. Lep. Ost-Sib. p. 68, pl. 6.
f. 6. Siberia; China; Japan.
Botys cultralis Staud. S. E. Z. 1867, p. 108.
,, *labutonalis* Led. Hor. Ent. Ross. 1871, pl. ii. f. 9.
,, *amurensis* Rom. Mém. iii. p. 32.

Genus 148. APLECTROPUS.

Aplectropus Hmps. P. Z. S. 1896, p. 275.

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi filiform; frons rounded; antennæ ciliated; tibiæ without spurs. Fore wing with veins 3, 4, 5 well separated at origin; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 well separated at origin; 6, 7 stalked, 7 anastomosing with 8 to near apex.

Fig. 148.



Aplectropus leucopis, ♂. 1.

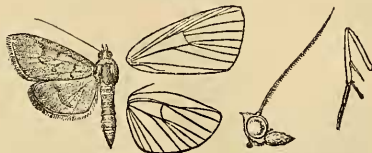
- Type.* †APLECTROPUS LEUCOPIS Hmps. P. Z. S. 1896, p. 275, pl. 10.
f. 10. Aden.

Genus 149. PYRAUSTA.

- Pyrausta* Schrank, Faun. Boica, ii. 2, p. 163 (1802).
Syllythria Hübn. Verz. p. 349 (1827).
Hæmatia Hübn. Verz. p. 349.
Epicsoria Hübn. Verz. p. 355.
Hapalia Hübn. Verz. p. 355.
Anania Hübn. Verz. p. 360.
Ostrinia Hübn. Verz. p. 360.
Hereyna Tr. Schmett. Eur. vii. p. 179 (1829).
Boreophila Guen. Dup. Cat. Méth. p. 195 (1831).
Nascia Curt. Brit. Ent. vi. p. 599 (1840).
Herbula Guen. Delt. & Pyr. p. 175 (1854).
Synchromia Guen. Delt. & Pyr. p. 288.
Enulea Guen. Delt. & Pyr. p. 357.
Sebunta, Wlk. xxvii. p. 77 (1863).
Ennychia Led. Wien. Ent. Mon. 1863, p. 255.
Algedonia Led. Wien. Ent. Mon. 1863, p. 363.
Gyptitia Snell. Tijd. v. Ent. 1883, p. 138.
Eclipsioides Meyr. Trans. Ent. Soc. 1884, p. 343.
Paliga Moore, Lep. Ceyl. iii. p. 350 (1885).
Opsibotys Warr. A. M. N. H. (6) vi. p. 474 (1890).
Sciörista Warr. A. M. N. H. (6) vi. p. 475 (1890).
Micractis Warr. A. M. N. H. (6) ix. p. 294 (1892).
Glauconoë Warr. A. M. N. H. (6) ix. p. 296.
Anthrocrypta Warr. A. M. N. H. (6) ix. p. 296.
Aplographe Warr. A. M. N. H. (6) ix. p. 301.
Diacme Warr. A. M. N. H. (6) ix. p. 389.
Niphograpta Warr. A. M. N. H. (6) ix. p. 390.
Cosmocercon Warr. A. M. N. H. (6) ix. p. 433.
Elbuleodes Warr. A. M. N. H. (6) xviii. p. 112 (1896).
Placosaris Meyr. Trans. Ent. Soc. 1897, p. 89.

Palpi porrect, triangularly scaled, the 3rd joint hidden by hair; maxillary palpi almost filiform; frons rounded; antennæ about three-fourths length of fore wing and ciliated; tibiæ with the outer spurs short, the outer medial spur not more than two-thirds

Fig. 149.



Pyrausta coclesalis, ♂. 1. (From Moths Ind. vol. iv.)

length of inner. Fore wing with veins 3, 4, 5 from angle of cell; 7 nearly straight; 10 sometimes anastomosing shortly with 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8.

SECT. I. (*Gyptitia*). Antennæ of male with a small tooth on inner side of 3rd joint; hind wing with the bases of vein 1c and median nervure fringed with long hair below.

- (1)†PYRAUSTA OCHRACEALIS Wlk. xxxiv. 1446. Assam; Ceylon; Burma; Java; Celebes.

Gyptitia gonialis Snell. Tijds. v. Ent. 1883, p. 138, pl. 8.
f. 9 a, b.

- †*Hapalia denticulosa* Moore, Lep. Ceyl. iii. p. 337, pl. 183.
f. 8.

SECT. II. Antennæ of male with a tuft of hair on inner side of basal joint; the base of shaft excised, flattened and contorted.

- (2)*PYRAUSTA TORRIDALIS Hmps. Moths Ind. iv. p. 443. Assam.

SECT. III. Antennæ of male normal.

A. Fore legs of male with thick tufts of fawn-coloured hair from base of coxæ and white hair from their extremities; mid legs with large tufts of black and white spatulate hair from coxæ, the tibiæ clothed with rough hair.

- (3)†PYRAUSTA BAMBUCIVORA Moore, Lep. Atk. p. 224.

India; Ceylon.

†*Nascia arenalis* Hmps. Ill. Het. ix. p. 163, pl. 173. f. 29.

- (4)†PYRAUSTA CITRINALIS Warr. A. M. N. H. (6) ix. p. 302 (♀).

N.W. Himalayas.

B. Hind tibiæ of male with the outer medial spur minute.

a. Fore wing of male with large fovea below the cell.

- (5) PYRAUSTA XANTHOTHYSANA, n. sp.

Reddish brown with a cupreous tinge; palpi below, front of pectus, and mid tibiæ and tarsi white, fore tibiæ with white bands. Fore wing with oblique sinuous dark antemedial line; a speck in cell and discocellular lunule; a highly dentate postmedial line slightly bent outwards between veins 7 and 2, then retracted; a terminal series of black points; the cilia yellow. Hind wing with minutely dentate postmedial line; a terminal series of points, becoming a line towards tornus; cilia yellow.

Hab. Sikhim. *Exp.* 36 mm. Types in Coll. Rothschild and B.M.

b. (*Placosaris*). Fore wing of male with scale-fans below median nervure on upper and under sides.

- (6)†PYRAUSTA LEUCULA Meyr. Trans. Ent. Soc. 1897, p. 89

Sangir.

- c. (*Nascia*). Fore wing of male without scale-fans.
- (7) PYRAUSTA CILIALIS Hübn. Schmett. Eur., Pyr. f. 119. Europe; Amur.
Botys venosalis Nolck. Nat. Ver. Riga, 1848, i. p. 283.
 „ *virgata* Reult, Lep. Fri. 139.
Antigastrea virgatalis Christ. Bull. Mosc. lvi. (1) p. 38.
- (8)†PYRAUSTA ACUTELLA Wlk. xxxv. 1753. U.S.A.
 †*Botys venalis* Grote, Can. Ent. x. p. 24.
- (9) PYRAUSTA FUMALIS Guen. Delt. & Pyr. p. 358. U.S.A.
 †*Scopula orasusalis* Wlk. xviii. 784.
 †*Botys badipennis* Grote, Bull. Buff. Soc. i. p. 88, pl. 2. f. 12.
- (10) PYRAUSTA RUBELLALIS Snell. Trans. Ent. Soc. 1890, p. 577. N.E. India; Burma.
Botys coactalis Snell. Trans. Ent. Soc. 1890, p. 577.
- (11)†PYRAUSTA BISIGNATA Butl. Ill. Het. vii. p. 98, pl. 135. f. 11. N.W. Himalaya.
- (12) PYRAUSTA PAUPELLALIS Led. Wien. Ent. Mon. 1863, p. 469, pl. 10. f. 6. India; Ceylon.
- (13) PYRAUSTA OBLIQUATA Moore, Lep. Atk. p. 224. India; Ceylon; Burma.
 † „ *nissoralis* Swinh. A. M. N. H. (6) xiv. p. 145.
- (14)*PYRAUSTA CYNOALIS Druce, Biol. Centr.-Am., Het. ii. p. 221, pl. 61. f. 11. Mexico; Centr. Am.
- (15)*PYRAUSTA SIMPLEX Warr. A. M. N. H. (6) xviii. p. 112. Assam.
- (16)*PYRAUSTA IMPUNCTATA Warr. Nov. Zool. iv. p. 129. Natal.
- (17)†PYRAUSTA COCLESALIS Wlk. xviii. 701. Japan; Oriental region.
 †*Botys itemasalis* Wlk. xix. 996.
 † „ *strenualis* Wlk. xxxiv. 1409.
 † „ *interfusalis* Wlk. xxxiv. 1443.
 „ *lentalis* Feld. Reis. Nov. pl. 135. f. 44.
 „ *lacrimalis* Leech, Ent. xxii. p. 69, pl. iii. f. 12.
- (18)†PYRAUSTA ACUTIDENTALIS Hmpsn. Moths Ind. iv. p. 441 (♀). Sikhim.
- (19) PYRAUSTA FRAUDULENTALIS Warr. A. M. N. H. (6) xvi. p. 474. Assam.
- (20)†PYRAUSTA BAMBUSALIS Moore, Lep. Atk. p. 222. N.E. India.
- (21) PYRAUSTA DINIASALIS Wlk. xviii. 649. China; N.W. Himalayas.
- (22) PYRAUSTA FUSCALIS Schiff. Wien. Verz. p. 121. Europe.
Puralis cineris Fabr. Ent. Syst. no. 379.
Margaritia pulveralis Steph. Ill. iv. p. 56.
 „ *fimbrialis* Steph. Ill. iv. p. 56.
Puralis julialis Schrank, Faun. Boica, p. 1712.

- (23) PYRAUSTA TERREALIS Tr. Schmett. Eur. vii. p. 110.
U.S.A. ; Europe ; Afghanistan.
Scopula borealis Curt. Brit. Ent. 175.
†*Botys mississippiensis* Wlk. xviii. 564.
„ *humilalis* Led. Wien. Ent. Mon. 1863, p. 371, pl. 9.
f. 2.
- (24)†PYRAUSTA ACCOLALIS Zell. S. E. Z. 1867, p. 190.
S.E. Europe.
- (25) PYRAUSTA SAMBUCALIS Schiff. Wien. Verz. p. 121. Europe.
- (26) PYRAUSTA TERTIALIS Guen. Delt. & Pyr. p. 364. U.S.A.
Botys plectilis Grote & Rob. Trans. Am. Ent. Soc. i. p. 20,
pl. 2. f. 17.
„ *syringicola* Pack. Rep. Mass. Board Agric. 1870.
- (27)*PYRAUSTA TRIUMPHALIS Feld. Reis. Nov. pl. 135. f. 47.
Bogota.
- (28) PYRAUSTA LUCTUALIS Hübn. Pyr. f. 88. Europe ; Amur ;
Noctua unigutta Esp. iv. p. 104, pl. 183. ff. 1, 2. Japan.
†*Emnychia diversa* Butl. Trans. Ent. Soc. 1884, p. 535.
- (29)†PYRAUSTA SUFFUSALIS Warr. A. M. N. H. (6) ix. p. 438 (♀).
Japan.
- C. Mid tibiæ of male immensely dilated with a fold and tuft
of hair ; hind tibiæ with the outer medial spur one-third
length of inner.
- (30) PYRAUSTA MELLINALIS Hübn. Zutr. i. 24, 69. ff. 137, 138.
U.S.A. ; W. Indies ; S. America
Botys œdipodalis Guen. Delt. & Pyr. p. 336.
† „ *butyrosa* Butl. P. Z. S. 1878, p. 493.
Eudiotis oratalis Hulst, Tr. Am. Ent. Soc. xiii. p. 158.
- (31)†PYRAUSTA FLAVIDENSALIS Warr. Trans. Ent. Soc. 1889,
p. 287 (palpi broken). Brazil.
- D. Mid tibiæ of male immensely dilated with a thick fringe
of large curved scales on inner side.
- (32) PYRAUSTA VARIALIS Brem. Lep. Ost-Sib. p. 69, pl. vi. f. 9.
Siberia ; Japan.
†*Opsibotys latipennis* Warr. A. M. N. H. (6) ix. p. 295 (1892).
- E. Legs of male normal ; the outer medial spur about one-half
length of inner.
- a. (*Crypsiptya*). Thorax of male with a large fan of scales
at base of fore wing below.
- (33)†PYRAUSTA CEADESALIS Wlk. xviii. 639. W. & E. Africa.

- (34)†PYRAUSTA DEDUCTALIS Wlk. xviii. 659; Hmps. India ;
 Ill. Het. ix. pl. 183. f. 8. Ceylon ; Malayan
Botys neridalis Led. Wien. Ent. Mon. 1863, subregion
 p. 371, pl. 9. f. 7. to New Guinea.
 „ *ausonialis* Snell. Trans. Ent. Soc. 1890, p. 578.
 †*Glauconoe fuscescens* Warr. A. M. N. H. (6) ix. p. 297 (1892).
- b. Thorax of male normal.
- a'. Fore wing of male with a glandular swelling on costa at two-thirds from base ; a hyaline fovea in end of cell ; vein 7 from well below upper angle, 6 from below middle of discocellulars, the base of each curved downwards and with elongate foveas above them.
- (35)†PYRAUSTA FOVIFERALIS Hmps. Moths Ind. iv. p. 439. Burma.
- b'. (*Anthocrypta*). Hind wing of male with a large patch of androconia from below middle of cell to near outer margin.
- (36) PYRAUSTA SUBINQUINALIS Guen. Delt. & Pyr. p. 362. Brazil.
- c'. Wings of male normal.
- (37)†PYRAUSTA PERELEGANS, n. sp. (1898, Plate L. fig. 29.)
 ♂. Head, thorax, and abdomen above purplish, the last tinged with black ; pectus and ventral surface of abdomen white ; wings very pale hyaline yellow. Fore wing with the costa bright purple, expanding to inner margin at base, slightly at middle, into a truncate triangular discoidal patch with a yellow point on it, and into an apical patch extending to vein 5 and bearing two yellow spots and a fine terminal line ; a very indistinct dentate line from lower edge of apical patch to vein 2 near cell and angled outwards above vein 1 ; some purple points on termen. Hind wing with discoidal point and irregularly waved postmedial indistinct fuscous line bent outwards between veins 5 and 3 ; some purple points on termen.
Hab. Colombia ; Peru. *Exp.* 28 mm.
- (38) PYRAUSTA CINIFERALIS Wlk. xxxix. 1417. Ceylon ;
 Burma ; Borneo.
 †*Hapalia concolor* Moore, Lep. Ceyl. iii. p. 339, pl. 181. f. 3.
- (39)†PYRAUSTA SUBFLAVALIS Warr. A. M. N. H. (6) ix. p. 297
 (1892). Madagascar.
- (40)†PYRAUSTA ALBICERALIS Grote, Bull. U.S. Geol. Surv. iv. U.S.A.
 p. 678.
- (41)†PYRAUSTA ALLECTALIS Grote, Can. Ent. ix. p. 107. U.S.A.
Euryceon perplexalis Fern. Can. Ent. xvii. p. 57.
- (42)†PYRAUSTA VACUNALIS Grote, Can. Ent. xiii. p. 33. U.S.A.
- (43) PYRAUSTA RHIPHEUSALIS Wlk. xviii. 710. Borneo ; Solomons.

- (44) PYRAUSTA INCOLORALIS Guen. Delt. & Pyr. Syria ;
 p. 333. W. & S. Africa ;
 †*Botys melonalis* Wlk. xviii. 702. Aden ; India ;
 †*Spilodes nitetosalis* Wlk. xviii. 773. Malayan subregion
 †*Botys albidalis* Wlk. xxxiv. 1411. to Australia.
 „ *ruficostalis* Led. Verh. z.-b. Wien, 1855, p. 217,
 pl. 3. f. 4.
- (45) PYRAUSTA REPANDALIS Schiff. Wien. Verz. p. 120. Europe.
Pyralis pallidalis Hübn. Pyr. f. 115.
- (46) PYRAUSTA PERLUCIDALIS Hübn. Pyr. f. 143. Europe.
Botys commellalis Chrét. Le Nat. 1891, p. 99.
- (47) PYRAUSTA PERTEXTALIS Led. Wien. Ent. Mon. 1863, p. 371,
 pl. 9. f. 10. U.S.A.
Botis gentilis Grote, Bull. Buff. Soc. i. p. 173.
 „ *thesealis* Zell. Verh. z.-b. Wien, 1872, p. 514.
- (48)†PYRAUSTA FISSALIS Grote, Bull. U.S. Geol. Surv. vi.
 p. 273. U.S.A.
- (49) PYRAUSTA MODERATALIS Christ. Bull. Mosc. lvi. (1) p. 25.
 Japan.
- (50)†PYRAUSTA ÆGLEALIS Wlk. xviii. 565. U.S.A.
 †*Botis quinquelinealis* Grote, Bull. Buff. Soc. Nat. Sci. ii. p. 231.
- (51)†PYRAUSTA THESTEALIS Wlk. xviii. 733. U.S.A.
 †*Botis magistralis* Grote, Bull. Buff. Soc. Nat. Sci. i. p. 173.
 „ *gulosalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 155.
- (52)†PYRAUSTA THESEUSALIS Wlk. xviii. 562. U.S.A.
 †*Botis feudalalis* Grote, Bull. Buff. Soc. Nat. Sci. ii. p. 21.
- (53)†PYRAUSTA LANGDONALIS Grote, Can. Ent. ix. p. 10. U.S.A.
- (54) PYRAUSTA OXYDALIS Guen. Delt. & Pyr. p. 328.
 U.S.A. ; Brazil.
- (55) PYRAUSTA FLAVIDALIS Guen. Delt. & Pyr. p. 329. U.S.A.
 †*Botys laccalis* Wlk. xviii. 733.
 † „ *cinctipedalis* Wlk. xxxiv. 1391.
- (56) PYRAUSTA PUNCTIMARGINALIS Hmps. Moths Ind. iv. p. 438.
 Sikhim.
- (57) PYRAUSTA FLAVALIS Schiff. Wien. Verz. p. 121. Europe.
Botys lutealis Dup. Léop. Fr. viii. p. 331, pl. 233. f. 1 (var.).
 „ *centralis* H.-S. iv. p. 28.
- (58)†PYRAUSTA PROCILLUSALIS Wlk. xviii. 641. S. Africa.
 †*Botys flavissimalis* Wlk. xxxiv. 1402.

- (59) PYRAUSTA TRINALIS Schiff. Wien. Verz. p. 317. Europe ;
 „ *flavalis* v. *tripunctalis* Oberth. Bull. C. Asia.
 Soc. Ent. Fr. (6) vii. p. xcix.
- (60)†PYRAUSTA SIGNATALIS Wlk. xxxiv. 1444. India ; Ceylon ;
 Java.
- (61)†PYRAUSTA GRACILIS Butl. Ill. Het. iii. p. 74, pl. 59. f. 4.
Botys explicatalis Christ. Bull. Mosc. 1881, i. p. 16. Japan.
- (62)†PYRAUSTA PHYLLISALIS Wlk. xix. 936. U.S.A.
- (63) PYRAUSTA LIPARALIS Guen. Delt. & Pyr. p. 195. Brazil.
Botys catonalis Wlk. xix. 936.
- (64)†PYRAUSTA ELEALIS Wlk. xvii. 351. U.S.A.
 †*Botys tædialis* Wlk. xviii. 732.
- (65) PYRAUSTA ADIPALOIDES Grote & Rob. Tr. Am. Ent. Soc. i.
 p. 27, pl. 2. f. 19. U.S.A.
- (66) PYRAUSTA MOPSALIS Wlk. xviii. 594. Venezuela.
Botys metiusalis Wlk. xviii. 731.
- (67)†PYRAUSTA ALBIGUTTALIS Warr. Trans. Ent. Soc. 1889, p. 289.
 Brazil.
- (68) PYRAUSTA ORIOALIS Guen. Delt. & Pyr. p. 196. Brazil.
Botys finitalis Guen. Delt. & Pyr. p. 335.
- (69) PYRAUSTA BITERNALIS Mann. Wien. Ent. Mon. 1862, p. 185,
 pl. 3. f. 7. Armenia.
- (70) †PYRAUSTA FUSCIMACULALIS Grote, Can. Ent. x. p. 25. U.S.A.
 †*Botys confovealis* Hulst, Tr. Am. Ent. Soc. xiii. p. 151.
- (71)†PYRAUSTA SUBMEDIALIS Grote, Can. Ent. viii. p. 111. Canada ;
 †*Botis dissectalis* Grote, Can. Ent. xii. p. 36. U.S.A.
 „ *pilalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 151.
- (72)†PYRAUSTA TRIMACULALIS Grote, Can. Ent. x. p. 24. U.S.A.
- (73) PYRAUSTA PREPETALIS Led. Hor. Ent. Ross. 1869, p. 90,
 pl. 5. f. 11. Armenia ; Centr. Asia.
- (74) PYRAUSTA LUTULENTALIS Led. Wien. Ent. Mon. 1858, p. 149.
 f. 4. Syria.
- (75)†PYRAUSTA AUREA Butl. A. M. N. H. (4) xvi. p. 414 (1875).
 Natal.
- (76)†PYRAUSTA FLAVICOLORALIS Grote, Can. Ent. x. p. 25. U.S.A.
- (77)†PYRAUSTA THALESALIS Wlk. xviii. 599. Honduras.
- (78)*PYRAUSTA ILLUTALIS Guen. Delt. & Pyr. p. 333. Brazil.

- (79) PYRAUSTA EXTRICALIS Guen. Delt. & Pyr. p. 338. Canada ;
 †*Pionca dionalis* Wlk. xviii. 758. U.S.A.
 †*Spilodes nisæcalis* Wlk. xviii. 771.
Botys intricalis Led. Wien. Ent. Mon. 1863, p. 373, pl. 10.
 f. 9.
 † „ *oppilalis* Grote, Can. Ent. xii. p. 36.
- (80) †PYRAUSTA HELVALIS Wlk. xviii. 757. U.S.A.
 †*Botis oscitalis* Grote, Can. Ent. xii. p. 36.
 „ *gyralis* Hulst, Tr. Am. Ent. Soc. xiii. p. 152.
- (81) †PYRAUSTA SANGUINEALIS Warr. A. M. N. H. (6) ix. p. 294
 (1892). Japan.
- (82) PYRAUSTA SALENTIALIS Snell. Tijd. v. Ent. 1880, p. 207, &
 1883, pl. 7. f. 1. Java; Celebes; Flores; Australia.
- (83) PYRAUSTA FURNACALIS Guen. Delt. & Pyr. p. 332. Australia.
- (84) †PYRAUSTA DAMOALIS Wlk. xviii. 656. Japan; China;
 †*Botis scapularis* Wlk. xviii. 657. Himalayas; Burma.
Hapalia dorsivittata Moore, Lep. Atk. p. 223, pl. 7. f. 18.
- (85) PYRAUSTA NUBILALIS Hübn. Samml. Eur. Schmett., Pyr.
 f. 94. Europe; W. Asia; Himalayas; Assam.
Pyralis silacealis Hübn. Samml. Eur. Schmett., Pyr. f. 116.
 „ *glabralis* Haw. Lep. Brit. p. 380.
Botys zealis Guen. Delt. & Pyr. p. 332.
Hapalia kasimrica Moore, Lep. Atk. p. 222, pl. 7. f. 28.
- (86) †PYRAUSTA INDISTANS Moore, Lep. Atk. p. 223. Himalayas.
Botys callidoralis Oberth. Et. Ent. xv. p. 25, pl. iii. f. 30.
- (87) †PYRAUSTA GRISEIFUSA Swinh. Trans. Ent. Soc. 1891, p. 153.
 S. India.
- (88) †PYRAUSTA OCCULTILINEA Wlk. xxvii. 168. N.E. India;
 Borneo.
- (89) PYRAUSTA OBUMBRATALIS Led. Wien. Ent. Mon. 1863, p. 372,
 pl. 9. f. 7. U.S.A.
- (90) PYRAUSTA ROBUSTA Moore, Lep. Atk. p. 222, pl. 7. f. 27 (♀).
 Sikhim.
- (91) PYRAUSTA MUSTELINALIS Pack. Ann. Lyc. N.Y. x. p. 262.
 †*Botis catenulalis* Grote, Can. Ent. ix. p. 105. U.S.A.
 „ *monulalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 154.
- (92) PYRAUSTA CLAUDIUSALIS Wlk. xviii. 629. U.S.A.
- (93) PYRAUSTA SINGULARIS Led. Wien. Ent. Mon. 1863, p. 376,
 pl. 12. f. 1. U.S.A.; Brazil.
- (94) †PYRAUSTA RUBIDALIS Dognin, Ann. Soc. Ent. Belge, xli.
 p. 249 (1897). (1898, Plate L. fig. 30¹.) Ecuador.

¹ Named *egcarsialis* in the Explanation of the Plate.

(95)†PYRAUSTA GLAUDESCENS, n. sp.

♂. Head and thorax reddish brown suffused with grey; abdomen ochreous tinged with fuscous. Fore wing rufous suffused with grey, especially on inner and apical areas; the antemedial black line very indistinct, strongly angled below the cell and with a prominent spot on inner margin; a prominent white, discoidal spot; an obliquely curved postmedial series of black points on a broad band of grey suffusion. Hind wing white, with subterminal black points on veins 2 to 6, some brown suffusion on termen from apex to vein 2.

Hab. Ecuador. *Exp.* 34 mm.

(96) PYRAUSTA ILLIBALIS Hübner. Zutr. i. 19, 48. ff. 95, 96.

†*Botys arsaltealis* Wlk. xvii. 564. Canada; U.S.A.

† „ *euphæsalis* Wlk. xix. 1008.

†*Sebanta guttulosa* Wlk. xxvii. 78.

Scoparia fascialis Wlk. Trans. Ent. Soc. (3) i. p. 127.

Botys subjectalis Led. Wien. Ent. Mon. 1863, p. 374, pl. 10. f. 13.

„ *magniferalis* Wlk. Can. Nat. & Geol. vi. p. 41.

(97) PYRAUSTA INCONCINNALIS Led. Wien. Ent. Mon. 1863, p. 372, pl. 10. f. 2. U.S.A.

†*Botis crocatalis* Grote, Papilio, i. p. 167.

„ *festalis*, Hulst, Tr. Am. Ent. Soc. xiii. p. 153.

(98) PYRAUSTA FUTILALIS Led. Wien. Ent. Mon. 1863, p. 372, pl. 10. f. 1. U.S.A.

†*Botis erectalis* Grote, Can. Ent. viii. p. 99.

(99) PYRAUSTA FUMOFERIALIS Hulst, Tr. Am. Ent. Soc. xiii. p. 154. U.S.A.

(100) PYRAUSTA SUBSEQUALIS H.-S. Schmett. Eur. vi. p. 141, f. 133. Armenia.

(101) PYRAUSTA ASINALIS Hübner. Pyr. f. 185. Europe.
Botys characteralis Frr. vi. p. 67, f. 521.(102) PYRAUSTA ERIOPSALIS Wlk. xix. 1006. Assam; Borneo.
Glauconoë atrigenalis Warr. A. M. N. H. (6) xvii. p. 95 (1896).

(103)*PYRAUSTA CURVALIS Leech, Ent. xxii. p. 68, pl. iii. f. 3.

(104) PYRAUSTA VITELLINALIS Koll. Hüg. Kash. iv. p. 492. Japan.

Himalayas; Burma.
Botys extinctalis Led. Wien. Ent. Mon. 1863, p. 467, pl. ix. f. 18.

(105)†PYRAUSTA USTALIS Hampson. Ill. Het. viii. p. 138, pl. 155. f. 7. S. India.

(106) PYRAUSTA PROFUSALIS Warr. A. M. N. H. (6) xvii. p. 95. N.E. India; Ceylon; Burma

- (107) PYRAUSTA DIFFUSALIS Guen. Delt. & Pyr. p. 340.
S. Europe; Syria; N.W. India.
Botys affusalis Guen. Delt. & Pyr. p. 340.
,, *carnealis* Dup. Léop. Fr. viii. p. 322, pl. 232. f. 4 (*nec*
Tr.).
,, *tenuialis* Mann. Wien. Ent. Mon. 1862, p. 387, pl. 3.
f. 5.
- (108)†PYRAUSTA PHARISALIS Wlk. xviii. p. 726. Australia.
- (109)*PYRAUSTA MALEDICTALIS, n. n.
Pyrausta fuscalis Warr. A. M. N. H. (6) xviii. p. 217
(preocc.) W. India.
- (110)†PYRAUSTA COORUMBA Hmps. Ill. Het. viii. p. 132, pl. 154.
f. 13. Assam; S. India.
Ebulea anomalalis Warr. A. M. N. H. (6) xviii. p. 110.
- (111)†PYRAUSTA TINCTALIS Hmps. Ill. Het. viii. p. 132, pl. 154.
f. 6. S. India.
- (112)†PYRAUSTA PURPURASCENS Hmps. Ill. Het. ix. p. 162,
pl. 172. f. 14. Ceylon.
- (113)†PYRAUSTA BENENOTATA Swinh. A. M. N. H. (6) xiv. p. 142.
N.E. India.
- (114)*PYRAUSTA TRIPLAGALIS Warr. A. M. N. H. (6) xviii.
p. 114 (♀). Assam.
- (115)†PYRAUSTA NIGRESCENS Moore, Lep. Atk. p. 221. Sikhim.
- (116)*PYRAUSTA NIGRITALIS Hmps. Moths Ind. iv. p. 434.
Bum a.
- (117) PYRAUSTA LIMBOPUNCTALIS H.-S. iv. p. 115, f. 117.
S. Europe; W. & C. Asia.
Herbula sardinialis Guen. Delt. & Pyr. p. 178, pl. 4. f. 5.
,, *congeneralis* Guen. Delt. & Pyr. p. 179.
Botys frustalis H.-S. N. Schm. f. 144.
,, *dissolutalis* Stand. Hor. Ent. Ross. xv. p. 171 (var.).
- (118) PYRAUSTA AEREALIS Hübn. Pyr. f. 44.
Europe; W. & C. Asia.
Pyralis opacalis Hübn. Pyr. ff. 169, 170.
Pyrausta suffusalis Tr. Schm. Eur. vii. p. 68.
Scopula ablutalis Ev. F. V. & U. 461 (var.).
- (119) PYRAUSTA SUBOLIVALIS Pack. Ann. Lyc. N. York, x.
p. 261. U.S.A.
Botys unifuscialis Pack. Ann. Lyc. N. York, x. p. 261.
Botis hereynalis Grote, Bull. Buff. Soc. ii. p. 232.
,, *obnigralis* Hulst, Tr. Am. Ent. Soc. xiii. p. 153.
- (120)†PYRAUSTA CANOTINCTALIS Hmps. Moths Ind. iv. p. 431.
N.W. Himalayas.

- (121) *PYRAUSTA TORVALIS* Möschl. Wien. Ent. Mon. 1864, p. 198,
pl. 5. f. 16. Labrador.
†*Scoparia gelida* McLachl. Journ. Linn. Soc. xiv. p. 115.
- (122) *PYRAUSTA MURINALIS* F. R. p. 276, pl. 92. f. 3. Europe.
- (123) *PYRAUSTA AUSTRIACALIS* H.-S. vi. p. 141, f. 142. Europe.
Scopula donzelalis Guen. Delt. & Pyr. p. 392, pl. 6. f. 12.
Botys sororalis Heyd. Jahrb. Graub. 1860, & S. E. Z. 1862
(var.).
,, *nitidalis*, Heinem. Schmett. Deutschl. p. 83 (var.).
- (124) *PYRAUSTA ULIGINOSALIS* Steph. Cat. 166. Europe.
Botys monticolalis Lah. Pyr. 26.
- (125) *PYRAUSTA ALPINALIS* Schiff. Wien. Verz. p. 123. Europe.
- (126)**PYRAUSTA DEVIALIS* Feld. Reis. Nov. pl. 135. f. 21. Bogota.
- (127) *PYRAUSTA RHODODENDRALIS* Dup. Lép. Fr. viii. p. 363,
pl. 235. f. 5. Europe.
Tortrix sulphurana Hübn. 162.
- (128) *PYRAUSTA FODINALIS* Led. Wien. Ent. Mon. 1863, p. 369,
pl. 8. f. 9. U.S.A.
†*Botis socialis* Grote, Can. Ent. ix. 107.
- (129) *PYRAUSTA SEMIRUBRALIS* Pack. Ann. N. Y. Lyc. x. (1873)
p. 263. U.S.A.
- (130) *PYRAUSTA PERRUBRALIS* Pack. Ann. N. Y. Lyc. x. p. 265.
U.S.A.
- (131)†*PYRAUSTA POSTRUBRALIS*, n. sp.

Head and thorax bright yellow; palpi brownish, white at base; frons and shoulders pink; abdomen yellowish white. Fore wing bright yellow; a pink fascia below basal half of costa; a pink antemedial line angled below cell, then obsolescent; a large pink discoidal spot extending to costa and connected at lower end with the broad oblique pink postmedial band, which is angled inwards to costa on inner side and extends to apex on outer. Hind wing yellowish white; a subterminal fuscous band from costa to vein 2, towards which it becomes pinkish.

Hab. Mexico, Arizona (*Schaus*). *Exp.* 24 mm.

- (132)**PYRAUSTA PERFULVALIS*, n. sp.

♀. Bright fulvous; palpi white below; abdomen with slight fuscous segmental lines. Fore wing slightly irrorated with fuscous; an antemedial black line angled on median nervure, then incurved; a discocellular lunule; the postmedial line excurved between veins 5 and 2, then retracted to angle of cell and strongly excurved again. Hind wing with discoidal spot; the postmedial line bent outwards between veins 5 and 2, then retracted to angle of cell

and oblique to tornus; both wings with terminal series of black strizæ; the cilia fuscous at base, whitish at tips.

Hab. Queensland, Dawson district (*Barnard*). *Exp.* 20 mm.
Type in Coll. Rothschild.

(133)†PYRAUSTA ACHEUSALIS Wlk. xix. 1007. Australia.

(134) PYRAUSTA PALUSTRALIS Hübn. Pyr. ff. 129, 130.
Noctua carneola Esper, pl. 69. f. 8. S.E. Europe.

(135)†PYRAUSTA MEMNIALIS Wlk. xix. 1010. Japan; China.

(136)†PYRAUSTA MACHERALIS Wlk. xix. 1013. Formosa; India;
Ceylon; Burma; Java; Australia.

†*Scopula damastesalis* Wlk. xix. 1013; Hmps. Ill. Het. ix.
pl. 173. ff. 1, 8.

Botys egenalis Led. Wien. Ent. Mon. 1863, p. 372, pl. 10.
f. 7.

† „ *suavalis* Wlk. xxxiv. 1448.

†*Asopia rufipicta* Butl. P. Z. S. 1880, p. 682.

†*Ebulca fimbriata* Moore, Lep. Ceyl. iii. p. 346.

Paliga rubicundalis, Warr. A. M. N. H. (6) xvii. p. 96.

† „ *fuscicostalis* Swinh. A. M. N. H. (6) xiv. p. 146.

(137)†PYRAUSTA CELATALIS Wlk. xviii. 657. Formosa; Ceylon;
Burma; Malayan subregion.

Botys rhœceusalis Wlk. xix. 1000.

„ *subcrocealis* Snell. Tijd. v. Ent. 1880, p. 208.

(138) PYRAUSTA FERRIFUSALIS Hmps. Ill. Het. ix. p. 164, pl. 172.
f. 13. Ceylon; Burma.

(139) PYRAUSTA EXTINCTALIS Christ. Bull. Mosc. Ivi. (1) p. 20.
Siberia; Burma.

(139 a) PYRAUSTA HYALODISCALIS Warr. A. M. N. H. (6) xvi. p. 471.
Assam.

(140)†PYRAUSTA LITHOSIALIS, n. sp.

♀. Palpi orange, black at tips; frons and antennæ black, vertex of head orange; thorax grey, tegulæ with black band, shoulders and metathorax behind orange; legs orange and fuscous; abdomen orange, with fuscous ventral spots. Fore wing grey; an orange fascia on costal area; the basal half of costa black; the inner margin and termen orange. Hind wing orange; a large apical patch, a wedge-shaped terminal patch on vein 2, and the inner area blackish.

Hab. Natal, Northdene. *Exp.* 24 mm.

(141) PYRAUSTA RUBRITINCTALIS Warr. A. M. N. H. (6) xvi.
p. 471. Assam.

Syllythria metallica Warr. A. M. N. H. (6) xviii. p. 107.

(142) PYRAUSTA CRUORALIS Warr. A. M. N. H. (6) xvi. p. 471.
Assam.

- (143) PYRAUSTA CARDINALIS Guen. Delt. & Pyr. p. 188, pl. 7. f. 6.
W. Indies; Brazil.

Synchronia coccinealis Wlk. xxxiv. 1292.

Botys carnifex Feld. Reis. Nov. pl. 134. f. 36.

- (144)*PYRAUSTA MUSTELALIS Wlk. xix. 924. Borneo.

- (145) PYRAUSTA PHENICEALIS Hübn. Verz. p. 348. Nearctic,
Neotropical, Ethiopian, Oriental, & Australian regions.

†*Rhodaria flegialis* Wlk. xvii. 316.

† „ *panopealis* Wlk. xvii. 318.

†*Botys cecilialis* Wlk. xviii. 581.

Rhodaria probalis Wlk. xix. 923.

† „ *ocellusalis* Wlk. xix. 923.

† „ *noraualis* Wlk. xix. 926.

† „ *catenalis* Wlk. xxxiv. 1282.

† „ *juncturalis* Wlk. xxxiv. 1283.

„ *concatenalis* Wlk. xxxiv. 1284.

Myriostephes heliamma Meyr. Trans. Ent. Soc. 1885, p. 448.

- (146) PYRAUSTA INSIGNITALIS Guen. Delt. & Pyr. p. 173.
U.S.A.; W. Indies; S. Amer.

†*Botys eratalis* Wlk. xviii. 578.

† „ *onythesalis* Wlk. xviii. 734.

†*Asopia largalis* Wlk. xix. 938.

†*Scopula ordinatalis* Wlk. xxxiv. 1465.

- (147) PYRAUSTA TINCTALIS Led. Wien. Ent. Mon. 1863, p. 371,
pl. 9. f. 5. Brazil.

- (148)†PYRAUSTA ACRIONALIS Wlk. xix. 925. U.S.A.

†*Rhodaria acuphisalis* Wlk. xix. 926.

Botys proceralis Led. Wien. Ent. Mon. 1863, p. 367.

„ *haruspica* Grote & Rob. Tr. Am. Ent. Soc. i. p. 19,
pl. 2. f. 14.

† *Pyrausta sumptuosalis* Wlk. xxxiv. 1281.

†*Botys rufifimbrialis* Grote, Can. Ent. xiii. p. 34.

- (149)†PYRAUSTA PYROCAUSTA, n. sp.

Head, thorax, and abdomen fulvous brown; palpi white at base. Fore wing yellow, suffused with fulvous brown; an antemedial sinuous black line bent outwards below the cell; a point in cell and pair of discoidal points; the postmedial line excurved and minutely dentate between veins 5 and 2, below which it is angled inwards; a subterminal oblique diffused line and terminal series of points. Hind wing orange-yellow, with postmedial black line oblique from costa to vein 2, where it is angled; a terminal fuscous band narrowing from costa to a point near tornus; a terminal series of black points.

Ab. 1. Fore wing with the oblique subterminal band much more prominent, defined on inner side by clear yellow and on outer side

diffused nearly to termen; hind wing with the costal and inner areas fuscous.

Hab. Brazil: São Paulo, Paraña (*Jones*). *Exp.* 20 mm.

- (150) PYRAUSTA RUBRICALIS Hübn. Pyr. f. 106. U.S.A.
Botys similalis Led. Wien. Ent. Mon. vii. p. 367.
 †*Rhodaria nescalis* Wlk. xvii. p. 315.
Botis californicalis Pack. Ann. N. Y. Lyc. 1873, p. 260.
- (151)†PYRAUSTA ILITHUCIALIS Wlk. xvii. 324. S. America.
- (152)*PYRAUSTA PROCHYTALIS Druce, Biol. Centr.-Am., Het. ii.
 p. 208, pl. 60. f. 24. Guatemala.
- (153) PYRAUSTA CHILLALIS Feld. Reis. Nov. pl. 134. f. 30. Chili.
- (154)†PYRAUSTA PURPURARIA Butl. Trans. Ent. Soc. 1883, p. 52.
 Chili.
- (155) PYRAUSTA BOREALIS Pack. Labr. xi. p. 50. Canada; U.S.A.
 †*Botys matronalis* Grote, Bull. Buff. Soc. N. Sci. ii. p. 231.
- (156)†PYRAUSTA SUBMARGINALIS Wlk. xxxiv. 1288.
Hab. Unknown.
- (157) PYRAUSTA SUBSEQUALIS Guen. Delt. & Pyr. p. 177, pl. 8. f. 3.
Herbula insequalis Guen. Delt. & Pyr. p. 447. U.S.A.
 †*Isopteryx madetisalis* Wlk. xix. 946.
 †*Herbula repletalis* Wlk. xxxiv. 1285.
 † „ *efficitalis* Wlk. xxxiv. 1287.
- (158) PYRAUSTA OFFUMALIS Hulst, Tr. Am. Ent. Soc. xiii. p. 150.
 U.S.A.
- (159)†PYRAUSTA COMMIXTALIS Wlk. xxxiv. 1459.
 †*Crambus indotatellus* Wlk. xxxv. 1752. U.S.A.; Finland.
Botys septentrionalis Tengstr. Cat. p. 358.
Euryceon cerevalis Zell. Verh. z.-b. Ver. Wien, 1872, p. 517.
- (160) PYRAUSTA MANUALIS Hübn. Pyr. ff. 195-197. S. Europe;
 W. Asia; Siberia.
 „ „ var. *furvalis* Ev. Bull. Mosc. 1842, p. 561.
- (161) PYRAUSTA CESPITALIS Schiff. Wien. Verz. p. 123.
 Palearctic region; N. India; Burma.
Tortrix zonana Schöff. Icones, pl. 262. ff. 4, 5.
Tinea vestianella Clerck, Icones, pl. ii. f. 11.
Pyralis sordidalis Hübn. Pyr. pl. 7. f. 40.
Pyrausta intermedialis Dup. Léop. Fr. p. 350, pl. 234. ff. 1, 2.
Botys despicata Scop. Ent. Carn. no. 579.
 †*Herbula picarialis* Wlk. xxxiv. 1287.
Botys tendinosalis Brem. Lep. Ost-Sib. p. 99, pl. 8. f. 10.
- (162) PYRAUSTA GENEROSA Grote & Rob. Tr. Am. Ent. Soc. i.
 p. 20, pl. 2. f. 10. U.S.A.

- (163)†PYRAUSTA FLAVOFASCIALIS Grote, Bull. U.S. Geol. Surv. vi.
p. 577. U.S.A.
- (164) PYRAUSTA IDESSA Druce, Biol. Centr.-Am., Het. ii. p. 206,
pl. 60. f. 20. Guatemala.
- (165)†PYRAUSTA RUBRIVENA Warr. A. M. N. H. (6) ix. p. 176
(1892.). Madagascar.
- (166) PYRAUSTA SANGUINALIS Linn. Syst. Nat. xii. no. 339.
Europe; W. Asia; Siberia; N.W. Himalayas.
Rhodaria hæmatalis Hübn. Pyr. f. 178 (var.).
" *auroralis* Zell. Isis, 1847, p. 645 (var.).
" *virginalis* Dup. Léop. Fr. viii. p. 216, pl. 224. f. 3.
Ebulea simplicialis Brem. Lep. Ost-Sib. p. 71, pl. 6. f. 13.
- (167) PYRAUSTA TITHONIALIS Zell. Verh. z.-b. Ver. Wien, 1872,
p. 504, pl. 3. f. 15. Siberia.
Botys dotatialis Christ. Bull. Mosc. lvi. (1) p. 12.
- (168) PYRAUSTA PELLICALIS Stgr. Hor. Ent. Ross. vii. p. 189.
Spain.
- (169) PYRAUSTA CASTALIS Tr. Schm. Eur. vii. p. 164. S. Europe.
- (170) PYRAUSTA LATICLAVIA Grote & Rob. Tr. Am. Ent. Soc. i.
p. 17, pl. 2. f. 12. U.S.A.
Botis cinerosa Grote & Rob. Tr. Am. Ent. Soc. i. p. 17, pl. 2.
f. 13 (var.).
- (171) PYRAUSTA TYRALIS Guen. Delt. & Pyr. p. 169. U.S.A.
† " *erosnealis* Wlk. xvii. 311.
Botis diffissa Grote & Rob. Tr. Am. Ent. Soc. i. p. 19.
" *bellulalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 149.
- (172)*PYRAUSTA SALVIA Druce, Biol. Centr.-Am., Het. ii. p. 207,
pl. 60. f. 22. Mexico.
- (173)†PYRAUSTA SIGNATALIS Wlk. xxxiv. 1282. U.S.A.
Botis virulenta Grote & Rob. Tr. Am. Ent. Soc. i. p. 17.
- (174) PYRAUSTA TOGALIS Led. Wien. Ent. Mon. 1863, p. 371,
pl. 8. f. 18. Cuba; Ecuador.
- (175)†PYRAUSTA AGATHALIS Wlk. xvii. 318. Venezuela.
- (176)†PYRAUSTA VOLUPIALIS Grote, Bull. U.S. Geol. Surv. iii.
p. 799. U.S.A.
- (177)†PYRAUSTA ANGUSTALIS Grote, Bull. U.S. Geol. Surv. vi.
p. 273. U.S.A.
- (178)*PYRAUSTA ROSA Druce, Biol. Centr.-Am., Het. ii. p. 206,
pl. 60. f. 19. Mexico.
- (179)†PYRAUSTA SUBNICALIS Warr. A. M. N. H. (6) ix. p. 177
(1892.). U.S.A.
- (180)†PYRAUSTA ATROPURPURALIS Grote, Can. Ent. x. U.S.A.

- (181)†PYRAUSTA LETHALIS Grote, Can. Ent. xiii. p. 33. U.S.A.
- (182)†PYRAUSTA NICALIS Grote, Bull. U.S. Geol. Surv. iv. U.S.A.
p. 671.
Botis uvorculalis Hulst, Tr. Am. Ent. Soc. xiii. p. 153.
- (183)†PYRAUSTA COCCINEA Warr. A. M. N. H. (6) ix. p. 176
(1892). U.S.A.
- (184) PYRAUSTA PORPHYRALIS Schiff. S. U. p. 317. S. Europe.
Pyralis coccinalis Hübn. Pyr. f. 37.
Pyrausta chionealis Guen. Delt. & Pyr. p. 164, pl. 3. f. 4.
- (185)†PYRAUSTA ORPHISALIS Wlk. xvii. 310. U.S.A.
- (186)*PYRAUSTA RANALIS Feld. Reis. Nov. pl. 136. f. 6. Bogota.
- (187) PYRAUSTA FALCOTALIS Guen. Delt. & Pyr. p. 167.
S. Europe.
,, *phœnicealis* F. R. p. 278, pl. 93. f. 2 (preocc.).
- (188)*PYRAUSTA RHEALIS Druce, Biol. Centr.-Am., Het. ii. p. 207,
pl. 60. f. 23. Guatemala.
- (189) PYRAUSTA PURPURALIS Linn. Syst. Nat. ed. xii. i. p. 883.
Botys inflammata Scop. Ent. Carn. 564. Europe.
Pyralis punicealis Hübn. Pyr. f. 34.
,, *ostrinalis* Hübn. Pyr. f. 113.
,, *mestalis* Dup. Léop. Fr. viii. p. 226, pl. 224.
,, *chermesinalis* Guen. Delt. & Pyr. p. 167 (var.).
- (190) PYRAUSTA AURATA Scop. Ent. Carn. no. 565. Europe ;
Syria ; Persia ; Afghanistan.
Pyralis punicealis Schiff. W. V. p. 317.
,, *porphyralis* Hübn. Pyr. f. 36.
- (191)†PYRAUSTA TRIZONALIS, n. sp.

♂. Head, thorax, and abdomen black, mixed with ochreous scales ; pectus and ventral surface of abdomen ochreous. Fore wing blackish tinged with red ; a diffused orange antemedial band ; a spot in end of cell ; a broad diffused orange postmedial band crossed below costa by the dark postmedial line, which is excurved between veins 6 and 2 ; an ill-defined subterminal orange band and spot above tornus. Hind wing black, with orange subbasal patch below the cell ; orange medial and subterminal bands not reaching costa, the former angled at middle, the latter expanding into a patch below costa and obsolescent towards tornus. Underside of fore wing black, with the orange markings much more sharply defined.

♀. Fore wing suffused with rufous, the orange and black markings all blurred and ill-defined.

Hab. Mexico : Cordoba, Orizaba (*Schaus*). *Exp.* 16 mm. Type ♂ in Coll. Schaus.

(192)†PYRAUSTA PHÆOPHÆNICA, n. sp.

♂. Head, thorax, and abdomen black, mixed with ochreous and dark purple-red scales; abdomen suffused with red on dorsum and with pale segmental lines. Fore wing dark purple-red, irrorated with yellow and greyish scales; indistinct waved subbasal and antemedial yellow lines; a yellow spot in end of cell; a sinuous postmedial line strongly excurved between veins 5 and 2; a subterminal line represented by marks below apex and above tornus. Hind wing black-brown, with yellow spot below middle of cell; a postmedial band between veins 5 and 2; subterminal spots below veins 6 and 2, and a spot on inner margin above tornus. Under-side with much more developed greyish-yellow markings.

Hab. Brazil, Castro Paraña (*Jones*). *Exp.* 14 mm.

(193)*PYRAUSTA LATINIGRALIS, n. sp.

♀. Head and thorax black; palpi orange below; vertex of head with some orange scales; legs orange, fore legs with black on femora and tibiæ; abdomen orange, with slight lateral segmental black marks and some black on terminal segment. Fore wing black, with orange antemedial band expanding at middle; a spot in end of cell; the postmedial line excurved between veins 5 and 2, then retracted to angle of cell, defined by an orange band from costa to vein 5, a line from vein 5 to 3, and an orange patch below cell; cilia orange at apex and tornus. Hind wing orange; an oblique antemedial black line; the postmedial line bent outwards between veins 5 and 2, then oblique to tornus; the terminal area black with sinuous inner edge, wide at costa and narrowing to tornus.

Hab. Niger, Warri (*Roth*). *Exp.* 20 mm. Type in Coll. Rothschild.

(194) PYRAUSTA NIEPOLDALIS Led. Wien. Ent. Mon. 1863, p. 46,
pl. 8. f. 6. Silesia.

(195) PYRAUSTA TRIMACULALIS Stgr. S. E. Z. 1867, p. 109.

Greece; Armenia.

(195a)†PYRAUSTA TETRAPLAGALIS, n. sp. (1898, Plate L. fig. 25.)

♂. Head orange, antennæ and tufts above eyes blackish; thorax orange, with two black stripes; abdomen orange, with dorsal series of blackish marks. Fore wing black, with orange subbasal band; a medial triangular spot on costa; a round patch on inner area just beyond middle; an elliptical subterminal patch extending from costa to vein 2. Hind wing black, the basal area orange; a broad postmedial band narrowing somewhat on inner area.

Hab. Mashonaland, Salisbury (*Marshall*). *Exp.* 16 mm.

(196) PYRAUSTA SIKKIMA Moore, Lep. Atk. p. 207.

Himalayas; Andamans.

† „ *maculata* Butl. Ill. Het. vii. p. 93, pl. 134. f. 16.

- (197)*PYRAUSTA AURANTIFASCIALIS Hmps. Moths Ind. iv. p. 429. Burma.
- (198)†PYRAUSTA CHRYSITIS Butl. Trans. Ent. Soc. 1881, p. 584. Japan.
- (199)†PYRAUSTA UNIPUNCTATA Butl. Trans. Ent. Soc. 1881, p. 584. Japan.
- (200)†PYRAUSTA LIMBATA Butl. Ill. Het. iii. p. 73, pl. 58. f. 13. Japan.
- (201) PYRAUSTA SILHETALIS Guen. Delt. & Pyr. p. 166. C. Asia ; Himalayas ; Assam.
Botys pangialis Feld. Reis. Nov. pl. 134. f. 25.
Pyrausta cuprealis Moore, A. M. N. H. (5) i. p. 235 (1878) ; and 2nd Yarkand Mission, pl. i. f. 26.
- (202) PYRAUSTA OBFUSCATA Scop. Ent. Carn. p. 232. S. Europe.
 „ *pygmealis* Dup. Léop. Fr. viii. p. 225, pl. 224. f. 7.
 „ *fucatalis* Tr. Schmett. Eur. x. 3, p. 36.
 „ *atrosanguinalis* Ev. F. & U. p. 471.
- (203) PYRAUSTA ACONTIALIS Stgr. S. E. Z. 1859, p. 221. S. Europe ; Armenia.
 „ „ var. *senicalis* Stgr. S. E. Z. 1859, p. 221.
- (204)†PYRAUSTA NIVEICILIALLIS Grote, Bull. Buff. Soc. ii. p. 232. U.S.A.
- (205) PYRAUSTA PEREGRINALIS Ev. Bull. Mosc. 1852, p. 164.
Botys limitalis Christ. Bull. Mosc. lvi. (1) p. 14. Siberia.
- (206)†PYRAUSTA MARGINALIS Wlk. xxxiv. 1459. U.S.A.
 †*Botis stenopteralis* Grote, Can. Ent. x. p. 26.
- (207) PYRAUSTA FASCIALIS Hübn. Pyr. f. 31. S. Europe ; W. Asia.
- (208) PYRAUSTA NIGRATA Scop. Ent. Carn. 580. Europe.
Pyralis anguinalis Hübn. Pyr. f. 32.
 „ *fascialis* Schr. Faun. Boic. p. 65.
- Type.* (209) PYRAUSTA CINGULATA Linn. Syst. Nat. x. p. 259. Europe.
Botys ethiopata Scop. Ent. Carn. 581.
Ennychia fascialis Dup. Léop. Fr. viii. p. 247, pl. 226. f. 3.
- (210) PYRAUSTA ALBOFASCIALIS Tr. Schmett. Eur. vii. p. 196. S. Europe.
Ennychia minutalis Speyer, S. E. Z. 1868, p. 111.
- (211)†PYRAUSTA ARABICA Butl. P. Z. S. 1884, p. 500. Arabia.
- (212)†PYRAUSTA COMMORTALIS Grote, Can. Ent. xiii. p. 233. U.S.A.
- (213)†PYRAUSTA VERSICOLOR Warr. A. M. N. H. (6) ix. p. 175 (1892). U.S.A.
- (214) PYRAUSTA NIGRALIS Fabr. Ent. Syst. p. 421. Europe.

- (215) *PYRAUSTA NYCTEMERALIS* Hübn. Pyr. f. 148. Europe.
Hercyna intricalis Ev. Bull. Mosc. 1854, ii. p. 193.
- (216) *PYRAUSTA UNIMACULA* Grote & Rob. Tr. Am. Ent. Soc. i.
 p. 14, pl. 2. f. 8. U.S.A.
- (217)†*PYRAUSTA ASTRIFERA* Butl. Ill. Het. iii. p. 73, pl. 58. f. 14.
 Japan
- (218)†*PYRAUSTA ASSIMILIS* Butl. Ill. Het. iii. p. 73, pl. 58. f. 12.
 Japan.
- (219)†*PYRAUSTA GLOMERALIS* Wlk. xvii. 330. U.S.A.
- (220) *PYRAUSTA OCTOMACULATA* Linn. Mant. 540. Europe;
Phalæna atralis Fabr. Ent. Syst. 422. W. Asia.
Pyralis gutturalis Schiff. Wien. Verz. p. 124.
Noctua trigutta Esp. iv. p. 84, pl. 163. f. 4.

Auctororum.

- Botys perpendiculalis* Dup. Lép. Fr. viii. p. 324, pl. 232. f. 5.
 S. France.
- „ *appositalis* Led. Wien. Ent. Mon. 1858, p. 148, pl. 7.
 Syria.
- „ *crudalis* Led. Wien. Ent. Mon. 1863, p. 372, pl. 10. f. 5.
 Syria.
- „ *saxatilis* Staud., Meyr. Trans. Ent. Soc. 1890, p. 450.
 Europe.
- „ *fimbriatalis* Dup. Lép. Fr. viii. p. 352, pl. 234. f. 3.
 S.E. Europe; Armenia.
- „ *designatalis* Chr., Rom. Mém. iii. p. 28, pl. ii. f. 3.
 W. Asia.
- „ *amasialis* Staud. W. Asia.
 = *trivialis* var. *pontica* Rom. Mém. ii. p. 146, pl. 7. f. 12.
- „ *vastalis* Chr., Rom. Mém. iii. p. 33, pl. ii. f. 5. W. Asia.
- „ *concoloralis* Led. Wien. Ent. Mon. 1857, p. 100. Syria.
- Euryceron scalaralis* Chr. Hor. Ent. Ross. xii. p. 275, pl. 7. f. 46.
 W. Asia.
- Botys consortalis* H.-S. vi. p. 142, ff. 130, 131. Spain.
- Pyralis scutalis* Hübn. Pyr. f. 156. S. Europe.
- Botys vittalis* Lah. Nouv. Mém. Soc. Helv. Sci. Nat. p. 33.
 Switzerland.
- „ *deceptalis* Lah. Nouv. Mém. Soc. Helv. Sci. Nat. p. 37.
 Switzerland.
- „ *auralis* Peyerimh. Pet. Nouv. 1872, p. 252. ? Alsace.
- „ *pauperalis* Staud. Hor. Ent. Ross. xv. p. 173. Armenia.
- „ *retowskyi* Möschl. S. E. Z. xlix. p. 128. Crimea.
- „ *gutturalis* Staud. Hor. Ent. Ross. xv. p. 175. Magnesia.
- „ *dorealis* Rom. Mém. v. p. 230, pl. xi. f. 7. Teneriffe.
- Pyrausta dorsipunctalis* Rebel, Ann. Hofmus. Wien, vii. p. 245.
 Canaries.

- Botys maderensis* Beth. Baker, Trans. Ent. Soc. 1894, p. 584. Madeira.
- „ *atlanticum* Beth. Baker, Trans. Ent. Soc. 1894, p. 584. Madeira.
- „ *murcialis* Rag. Bull. Soc. Ent. Fr. 1895, p. xxiii. Spain.
- Pyrausta cuprinalis* Rag. Bull. Soc. Ent. Fr. 1895, p. xevii. Syria.
- Botys sedakovialis* Ev. Bull. Mosc. 1852, p. 165. E. Siberia.
- Eurycreon eversmanni* Stgr. Deutsch. Ent. Zeit., Lep. v. pl. iii. f. 21, & vi. p. 80. Central Asia.
- Botys tesserulalis* Christ. Hor. Ent. Ross. x. p. 44. N. Persia.
- „ *fibulalis* Christ. Bull. Mosc. lvi. (1) p. 9. Amur.
- „ *solemnalis* Christ. Bull. Mosc. lvi. (1) p. 10. Amur.
- „ *pullatalis* Christ. Bull. Mosc. lvi. (1) p. 12. Amur.
- „ *clausalis* Christ. Bull. Mosc. lvi. (1) p. 18. Amur.
- „ *aurithoracalis* Chr., Rom. Mém. ii. p. 145, pl. vii. f. 11. Achal Tekké.
- Hercyna nanalis* Christ. Hor. Ent. Ross. xxii. p. 310. C. Asia.
- Botys graseri* Staud. Deutsch. Ent. Zeit., Lep. v. p. 384, pl. iii. f. 24. Siberia.
- Herpetogramma expictalis* Christ. Bull. Mosc. lvi. (1) p. 36. Amur.
- Botys ochreocapitalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 165. Amur.
- „ *caliginosalis* Rag. Ann. Soc. Ent. Fr. 1894, p. 166. Amur.
- Samea geographicalis* Guen. Delt. & Pyr. p. 197. E. Indies.
- „ *continentalis* Guen. Delt. & Pyr. p. 197. E. Indies.
- Botys lineolalis* Motsch. Bull. Soc. Nat. Mosc. xxxix. i. p. 198. Japan.
- Pyrausta tibetalis* Oberth. Et. Ent. xi. p. 35, pl. ii. f. 6. Tibet.
- „ *bieti* Oberth. Et. Ent. xi. p. 35, pl. ii. f. 10. Tibet.
- Ennychia menialis* Oberth. Et. Ent. xix. p. 37, pl. vi. f. 55. Tibet.
- Botys velatalis* Snell. Midd.-Sum. iv. (1) 8, p. 63. Sumatra.
- „ *omicronalis* Snell. Midd.-Sum. iv. (1) 8, p. 63. Sumatra.
- „ *amboinalis* Pag. J.B. Nass. Ver. xxvii. p. 268, pl. vi. f. 2. Amboina.
- „ *quinquemaculalis* Pag. J.B. Nass. Ver. xxxviii. p. 54. Nias.
- „ *murinalis* Pag. J.B. Nass. Ver. xxxviii. p. 55. Nias.
- „ *flavioviolalis* Pag. J.B. Nass. Ver. xxxviii. p. 56. Nias.
- „ *catasemalis* Robt, Tijd. Ent. xxxiv. p. 333, & xxxv. pl. 6. f. 8. Ké I.
- „ *ictericalis* Snell. Tijd. v. Ent. xxxviii. p. 119. Java.
- „ *fuscociliatis* Snell. Tijd. v. Ent. xxxviii. p. 122. Java.
- „ *fuscinervalis* Snell. Tijd. v. Ent. xxxviii. p. 123. Java.
- „ *epitrota* Meyr. Trans. Ent. Soc. 1887, p. 231. Australia.
- Pyrausta straminea* Lucas, P. Linn. Soc. N. S. W. (2) vii. p. 263. Queensland.
- „ *violacea* Lucas, P. Linn. Soc. N. S. W. (2) vii. p. 263. Queensland.
- „ *nerialis* Boisd. Faun. Mad. p. 119. Mauritius.

- Pyrausta minutalis* Mab. Ann. Soc. Ent. Fr. (5) ix. p. 339. Madagascar.
 ,, *monotretalis* Mab. Ann. Soc. Ent. Fr. (5) ix. p. 339. Madagascar.
 ,, *acosmialis* Mab. Bull. Soc. Philom. (7) iii. p. 144. Madagascar.
- Botys bifeneustralis* Mab. C.R. Ent. Belge, xxiii. p. xxv. Madagascar.
 ,, *stenopalis* Mab. C.R. Ent. Belge, xxiii. p. xxv. Madagascar.
 ,, *vinilialis* Mab. C.R. Ent. Belge, xxiii. p. xxv. Madagascar.
 ,, *chrysotalis* Mab. C.R. Ent. Belge, xxiii. p. cviii. Madagascar.
 ,, *prasinalis* Saalm. Ber. Senck. Ges. 1879-80, p. 301. Madagascar.
 ,, *distinctalis* Saalm. Ber. Senck. Ges. 1879-80, p. 302. Madagascar.
 ,, *ferruginalis* Saalm. Ber. Senck. Ges. 1879-80, p. 302. Madagascar.
 ,, *carnosalis* Saalm. Ber. Senck. Ges. 1879-80, p. 302. Madagascar.
 ,, *gravitalis* Saalm. Ber. Senck. Ges. 1879-80, p. 303. Madagascar.
 ,, *ochracealis* Saalm. Ber. Senck. Ges. 1879-80, p. 303. Madagascar.
 ,, *posticalis* Saalm. Ber. Senck. Ges. 1879-80, p. 304. Madagascar.
 ,, *holoxanthalis* Mab. C.R. Ent. Belge, xxv. p. lxii. Madagascar.
 ,, *adsocialis* Zell. Lep. Caffr. p. 41. S. Africa.
- Rhodaria cinnamomealis* Wlgrn. W. E. M. 1860, p. 175. S. Africa.
- Botys lacunalis* Zell. Lep. Caffr. p. 42. S. Africa.
 ,, *approximalis* Guen. Delt. & Pyr. p. 360. W. Africa.
 ,, *interfucalis* Wlk. Tr. N. H. Soc. Glasg. i. p. 370. Congo.
 ,, *aburalis* Plötz, S. E. Z. xli. p. 304. W. Africa.
 ,, *mungalis* Plötz, S. E. Z. xli. p. 304. W. Africa.
 ,, *butleri* Dewitz, Verh. L.-C. Ac. xlii. p. 87, pl. iii. f. 13. Guinea.
 ,, *sordidalis* Dewitz, Verh. L.-C. Ac. xlii. p. 88, pl. iii. f. 11. Lagos.
 ,, *fumarialis* Dewitz, Verh. L.-C. Ac. xlii. p. 88, pl. iii. f. 19. Guinea.
 ,, *trigonalis* Mab. Ann. Soc. Ent. Fr. (6) x. p. 51. W. Africa.
- Prorasa lepidalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 146. U.S.A.
Eurycreon aureolalis Hulst, Tr. Am. Ent. Soc. xiii. p. 156. U.S.A.
- Botys venatalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 151. U.S.A.
 ,, *labeculalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 152. U.S.A.
 ,, *succandidalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 153. U.S.A.

- Botys thalophilalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 154. U.S.A.
- „ *oblectalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 154. U.S.A.
- „ *abdominalis* Zell. Verh. z.-b. Wien, xxii. p. 515. U.S.A.
- „ *penitalis* Grote, Can. Ent. viii. p. 98. U.S.A.
- „ *toralis* Grote, Bull. U. S. Geol. Surv. vi. pp. 167, 178. U.S.A.
- „ *radiosalis* Möschl. S. E. Z. xlv. p. 123. Labrador.
- „ *inornatulis* Fern. Can. Ent. xvii. p. 57. Florida.
- Orobena castanealis* Hulst, Tr. Am. Ent. Soc. xiii. p. 157. U.S.A.
- Botys roseipennalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 148. U.S.A.
- „ *nevialis* Hulst, Tr. Am. Ent. Soc. xiii. p. 150. U.S.A.
- „ *gracilalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 151. U.S.A.
- „ *hædulalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 152. U.S.A.
- „ *octosignalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 153. U.S.A.
- „ *scurralis* Hulst, Tr. Am. Ent. Soc. xiii. p. 155. U.S.A.
- „ *nelumbialis* Smith, Ent. Am. vi. p. 88. U.S.A.
- „ *magdalena* Fern. Can. Ent. xxiv. p. 122. Florida.
- „ *nigralis* Fern. Can. Ent. xxiv. p. 178. Florida.
- „ *polygamalis* Snell. Tijd. v. Ent. 1875, p. 195, pl. ii. ff. 5, 6. Jamaica.
- Eurycreon collucidalis* Möschl. Abh. Senck. Ges. xvi. p. 290. Porto Rico.
- Botys insularis* Grote & Rob. Trans. Am. Ent. Soc. i. p. 24, pl. 2. f. 24. Cuba.
- „ *acutangulalis* Snell. Tijd. v. Ent. xviii. p. 200, pl. xi. f. 11. W. Indies.
- „ *claudialis* Snell. Tijd. v. Ent. xviii. p. 204, pl. xi. f. 14. W. Indies.
- „ *samealis* Snell. Tijd. v. Ent. xviii. p. 205, pl. xi. f. 15. W. Indies.
- „ *variegalis* Snell. Tijd. v. Ent. xviii. p. 207, pl. xii. ff. 1, 2. W. Indies.
- „ *aulicalis* Möschl. Abh. Senck. Ges. xiv. p. 75. Jamaica.
- „ *villicalis* Möschl. Abh. Senck. Ges. xiv. p. 76. Jamaica.
- „ *matronulalis* Möschl. Abh. Senck. Ges. xiv. p. 76. Jamaica.
- „ *meropialis* Möschl. Abh. Senck. Ges. xiv. p. 77. Jamaica.
- „ *janivalis* Möschl. Abh. Senck. Ges. xiv. p. 78. Jamaica.
- „ *occidentalis* Snell. Tijd. v. Ent. xxx. p. 57, pl. 5. ff. 2, 2a. Curaçoa.
- „ *citrinalis*, Möschl. Abh. Senck. Ges. xvi. p. 282. P. Rico.
- „ *oculatalis*, Möschl. Abh. Senck. Ges. xvi. p. 282. P. Rico.
- „ *pertentalis*, Möschl. Abh. Senck. Ges. xvi. p. 284, f. 7. P. Rico.
- „ *albifrontalis* Möschl. Abh. Senck. Ges. xvi. p. 284. P. Rico.
- „ *principaloides* Möschl. Abh. Senck. Ges. xvi. p. 285. P. Rico.

- Botys placentalis* Möschl. Abh. Senck. Ges. xvi. p. 285. P. Rico.
 „ *visentalis* Möschl. Abh. Senck. Ges. xvi. p. 285. P. Rico.
 „ *intricatilis* Möschl. Abh. Senck. Ges. xvi. p. 286. P. Rico.
 „ *evincalis* Möschl. Abh. Senck. Ges. xvi. p. 287. P. Rico.
 „ *coccinimalis* Möschl. Abh. Senck. Ges. xvi. p. 287. P. Rico.
 „ *fortificalis* Möschl. Abh. Senck. Ges. xvi. p. 288. P. Rico.
 „ *scernalis* Möschl. Abh. Senck. Ges. xvi. p. 288. P. Rico.
 „ *flammeolalis* Möschl. Abh. Senck. Ges. xvi. p. 289. P. Rico.
 „ *pantoppidani* Hedemann, Stettin. Ent. Zeit. lv. p. 284. St. Croix.
 „ *flavaginalis* Hedemann, Stettin. Ent. Zeit. lv. p. 285. St. Croix.
Syllythria conradti Druce, Biol. Centr.-Am., Het. ii. p. 207, pl. 60. f. 21. Guatemala.
Botys lautalis Led. Wien. Ent. Mon. 1863, p. 370, pl. 8. f. 13. Colombia.
 „ *eoidalis* Feld. Reis. Nov. pl. 135. f. 14. Bogota.
 „ *vicarialis* Snell. Tijd. v. Ent. xviii. p. 194, pl. xi. f. 4. Bogota.
 „ *communalis* Snell. Tijd. v. Ent. xviii. p. 196, pl. xi. f. 7. Bogota.
Eurycreon ornamentalis Möschl. Verh. z.-b. Wien, xxxi. p. 418, pl. xviii. f. 28. Surinam.
Botys glutalis Möschl. Verh. z.-b. Wien, xxxi. p. 420, pl. xviii. f. 31. Surinam.
 „ *patronalis* Möschl. Verh. z.-b. Wien, xxxi. p. 421, pl. xviii. f. 31. Surinam.
 „ *luciferalis* Möschl. Verh. z.-b. Wien, xxxi. p. 422, pl. xviii. f. 32. Surinam.
 „ *delavalis* Möschl. Verh. z.-b. Wien, xxxi. p. 422, pl. xviii. f. 33. Surinam.
 „ *percludalis* Möschl. Verh. z.-b. Wien, xxxi. p. 422. Surinam.
 „ *dolosalis* Möschl. Verh. z.-b. Wien, xxxi. p. 423. Surinam.
 „ *metricalis* Möschl. Verh. z.-b. Wien, xxxi. p. 423. Surinam.
 „ *flexalis* Möschl. Verh. z.-b. Wien, xxxi. p. 424. Surinam.
 „ *terricolalis* Möschl. Verh. z.-b. Wien, xxxi. p. 424. Surinam.
 „ *tenuialis* Möschl. Verh. z.-b. Wien, xxxi. p. 425, pl. xviii. f. 34. Surinam.
Phalena surinamensis Sepp, Surinam, ii. 137, pl. 65. Surinam.
 „ *stigmatalis* Sepp, Surinam, ii. 257, pl. 107. Surinam.
 „ *jatrophalis* Sepp, Surinam, ii. 131, pl. 62. Surinam.
Botys suavidalis Berg, S. E. Z. xxxvii. p. 345. Brazil.
 „ *perlalis* Maasen, Stubel's Reise, p. 169, f. 23. Ecuador.

Genus 150. SCELIODES.

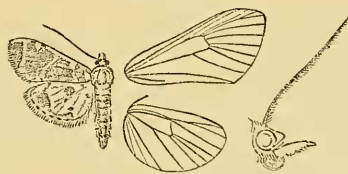
Sceliodes Guen. Delt. & Pyr. p. 400 (1856).

Daraba Wlk. xvii. 385 (1859).

Eretria Snell. Tijd. v. Ent. 1880, p. 206.

Palpi porrect, straight, about two and a half times length of head, the 2nd joint fringed with long hair below, the 3rd naked; maxillary palpi filiform; frons with large conical prominence; antennæ ciliated. Fore wing long and narrow, the apex somewhat produced and acute; veins 3, 4, 5 separate; 7 straight and well separated from 8, 9. Hind wing with the apex produced; veins 3, 4, 5 separate; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 150.

*Sceliodes cordalis*, ♂. †.

Type. (1) SCELIODES CORDALIS Doubl. in Dieff. Celebes; Australia;
N. Zeal. i. 288. N. Zealand.

„ *mucidalis* Guen. Delt. & Pyr. p. 400.

†*Daraba extensalis* Wlk. xxxiv. 1311.

Eretria obsistalis Snell. Tijd. v. Ent. 1880, p. 206, & 1883, pl. 6.
f. 12.

(2)†SCELIODES LAISALIS Wlk. xvii. 382. Arabia; S. Africa.

†*Daraba idmonealis* Wlk. xvii. 385.

Genus 151. THELCTERIA.

Thelcteria Led. Wien. Ent. Mon. 1863, p. 350.

Eustivia Hübn. Zutr. i. 24. 164 (1824), non descr.

Palpi porrect and straight, the 2nd joint moderately scaled, the

Fig. 151.

*Thelcteria pupula*, ♂. †.

3rd naked; maxillary palpi dilated with scales; frons with a
18*

conical prominence; antennæ of male ciliated; tibiæ with the outer spurs half the length of inner. Fore wing with vein 3 from near angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9; 10 well separated. Hind wing with veins 3, 4, 5 well separated at origin; 6, 7 from upper angle, 7 anastomosing with 8.

Type. (1) *THELCTERIA PUPULA* Hübn. *Zutr.* i. 24. 164, ff. 327, 328.

U.S.A.; Brazil.

(2)†*THELCTERIA OCTONALIS* Zell. *Verh. z.-b. Ver. Wien*, 1873, p. 211, pl. 3. f. 7.

U.S.A.

†*Botys sear maculalis* Grote, *Can. Ent.* viii. p. 98.

(3)†*THELCTERIA DICHOCROSIALIS*, n. sp.

♀. Orange; fore tibiæ with black band; abdomen with paired dorsal black spots on 1st and 4th segments, the terminal segment black. Fore wing with black spot at base of inner margin; an oblique black antemedial line; a postmedial straight line from costa to vein 5; a spot below middle of vein 2, a speck below it above inner margin and one beyond it above vein 1; subterminal spots above veins 4 and 7. Hind wing with large spot beyond the cell; a curved bar between vein 2 and tornus, and subterminal spots above veins 2 and 6.

Hab. Arjuno, Java (*Doherty*). *Exp.* 24 mm.

Genus 152. *CORNIFRONS*.

Cornifrons, Led. *Wien. Ent. Mon.* 1863, p. 384.

Palpi porrect, the 2nd joint moderately scaled, the 3rd prominent; maxillary palpi long and slightly dilated at extremity; frons with long corneous process with oblique vertical edge; antennæ ciliated; tibiæ with the outer spurs two-thirds length of inner. Fore wing with vein 3 from before angle of cell; 4, 5 from angle; 7 straight and well separated from 8, 9. Hind wing with vein 3 from near angle of cell; 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 152.



Cornifrons ulceratalis, ♂. †.

Type. (1) *CORNIFRONS ULCERATALIS* Led. *Wien. Ent. Mon.* 1858, p. 147, pl. 4. f. 1.

Algeria; Syria; Persia.

- (2)†*CORNIFRONS SIMALIS* Grote, Bull. U.S. Geol. Surv. iv. p. 670.
U.S.A.
- (3)†*CORNIFRONS PULVERALIS* Warr. A. M. N. H. (6) ix. p. 435.
U.S.A.

Auctorum.

- Prorasea indentalis* Grote, A. M. N. H. (5) xi. p. 57 (1883).
U.S.A.

Genus 153. TEGOSTOMA.

- Tegostoma* Zell. Isis, 1847, p. 581.
Anthophilodes Guen. Delt. & Pyr. p. 181 (1854).
Emprepes Led. Wien. Ent. Mon. 1863, p. 360.
Æschremon Led. Wien. Ent. Mon. 1863, p. 362.
Cataonia Rag. Ann. Soc. Ent. Fr. 1891, p. 450.
Anthophilopsis Rag. Ann. Soc. Ent. Fr. (6) x. p. 449.
Turania Rag. Ann. Soc. Ent. Fr. (6) x. p. 449.

Palpi porrect, the 2nd joint slightly fringed with hair below, the 3rd naked; maxillary palpi filiform; frons with a large flat corneous process excised in front; antennæ of male ciliated; legs smoothly scaled. Fore wing long and narrow; male with a slight fovea on underside above the base of vein 7, which is bent downwards; vein 3 from before angle of cell; 4, 5 from angle. Hind wing with vein 3 from before angle of cell; 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 153.

*Tegostoma comparalis*, ♂. †. (From Moths Ind. vol. iv.)

- Type.* (1) TEGOSTOMA COMPARALIS Hübn. Verz. p. 347.
Mediterranean subregion; India.
Pyralis glaucinalis Hübn. Samml. Eur. Schmett., Pyr. f. 127.
 † „ *tenebrosalis* Wlk. xxxiv. 1235.
 †*Scopula fotalis* Swinh. P. Z. S. 1885, p. 875, pl. 57. f. 9.
- (2) TEGOSTOMA DISPARALIS H.-S. vi. p. 140, ff. 134, 135.
Armenia; Afghanistan.
- (3) TEGOSTOMA SUBDITALIS Zell. Lep. Caffr. p. 25. S. Africa.
- (4) TEGOSTOMA MÆSCHLERI Christ. S. E. Z. 1862, p. 220.
Armenia; Egypt.
- (5) TEGOSTOMA BAPHIALIS Stgr. Hor. Ent. Ross. 1870, p. 183,
pl. 2. f. 7. S.E. Europe; N.W. India.
Anthophilodes plumbiferalis Chr. Hor. Ent. Ross. xii. p. 270,
pl. 7. f. 40.

- (6) *TEGOSTOMA MONOCERIALIS* Rag. Ann. Soc. Ent. Fr. 1891, Syria.
p. 450.
- (7)†*TEGOSTOMA FLAVIDA* Moore, P. Z. S. 1881, p. 371. Punjab.
- (8)†*TEGOSTOMA BIPARTALIS* Hmps. P. Z. S. 1896, p. 274. Aden.
- (9) *TEGOSTOMA PENTODONTALIS* Ersch, Lep. Turk. p. 75, pl. 6. Turkestan.
f. 97.
- (10) *TEGOSTOMA LEPIDA* H.-S. ii. p. 387, f. 534. Armenia.
- (11) *TEGOSTOMA FLORILEGARIA* Guen. Phal. p. 175. S. Africa.
- (12) *TEGOSTOMA PUDICALIS* Dup. Léop. Fr. viii. p. 212, pl. 224. f. 1. S. Europe.
- (13) *TEGOSTOMA DINICHEALIS* Wlk. xix. 986. W. Indies; Brazil.

Auctorum.

- Anthophilodes erubescens* Christ. Hor. Ent. Ross. xii. p. 271, Turkestan.
pl. 7. f. 41.
- „ *concinna* Christ. Hor. Ent. Ross. xvii. p. 120. Turkestan.
- „ *turcomanica* Christ. Hor. Ent. Ross. xii. p. 271, Turkestan.
pl. 7. f. 42.
- „ *conchylialis* Christ. Hor. Ent. Ross. ix. p. 7, pl. 1. Sarepta.
f. 4.
- Hypotia russulalis* Christ. Hor. Ent. Ross. 1877, p. 263, pl. vii. Turkestan.
f. 35.

Genus 154. NOCTUELIA.

Noctuelia Guen. Delt. & Pyr. p. 113 (1854).

Aporodes Guen. Delt. & Pyr. p. 159.

Aporocosmus Butl. Trans. Ent. Soc. 1886, p. 396.

Semniomima Warr. A. M. N. H. (6) ix. p. 172 (1892).

Mimoschinia Warr. A. M. N. H. (6) ix. p. 174.

Palpi porrect, the 2nd joint fringed with hair below, the 3rd naked; maxillary palpi filiform; frons with a rounded prominence; antennæ of male ciliated; mid tibiæ fringed with spinous

Fig. 154.



Noctuelia floralis, ♂. $\frac{3}{4}$. (From Moths Ind. vol. iv.)

hair. Fore wing long and narrow; vein 3 from before angle of cell; 4, 5 from angle; 6 from below upper angle. Hind wing with vein 3 from before angle of cell; 4, 5 from angle; 6, 7 from upper angle, 7 anastomosing with 8.

SECT. I. Palpi with the 2nd joint fringed with long hair below.

A. (*Aporodes*). Fore wing of male with a slight fovea on underside above base of vein 7.

(1) NOCTUELIA FLORALIS Hübn. Samml. Eur. Europe; Syria; Schmett., Pyr. f. 142. Afghanistan;

Pyralis stygialis Treit. Eur. Schmett. C. Asia; N. W. India; vii. p. 176 (var.).

†*Herbula meleagrisalis* Wlk. xvii. p. 324 (subsp.).

Eudorea transversalis Moore, 2nd Yarkand Mission, p. 14.

B. (*Noctuelia*). Fore wing of male with no fovea on underside.

Type. (2) NOCTUELIA SUPERBA Fr. 441, p. 101. Armenia; Persia.
Anarta melacantha Koll. Ins. Pers. p. 12.

(3) NOCTUELIA VESPERTALIS H.-S. vi. p. 140, ff. 121, 123.

S. Europe; Armenia.

(4) NOCTUELIA ALTICOLALIS Christ. Hor. Ent. Ross. xii. p. 268, pl. vii. f. 39. Armenia.

(5) NOCTUELIA STAUDINGERI Christ. Hor. Ent. Ross. ix. p. 6, pl. i. f. 3. Persia; Turkestan.

(6)†NOCTUELIA OBSCURA Warr. A. M. N. H. (6) ix. p. 175 (1892). Armenia.

SECT. II. (*Aporocosmus*). Palpi moderately scaled below; fore wing of male with no fovea beyond the cell.

(7) NOCTUELIA FLAVICEPS Burm. Rep. Arg. v. p. 425. Argentina.
Type of *Senniomima*, Warren, A. M. N. H. (6) ix. p. 172 (1892).

(8) NOCTUELIA PUELLA Wlk. vii. p. 1647. Brazil.

(9)†NOCTUELIA POLYSTRIGALIS, n. sp. (1898, Plate L. fig. 24.)

Head, thorax, and abdomen black. Fore wing orange, with black streaks on costa, through the cell, in submedian interspace, and just above inner margin; the apical area purplish black from two-thirds of costa to tornus. Hind wing purplish black, with the costa orange to near apex.

Hab. Peru. *Exp.* 32 mm.

(10)*NOCTUELIA LIGATALIS Druce, Biol. Centr.-Am., Het. ii. p. 189, pl. 29. f. 11. Mexico.

(11) NOCTUELIA COMASTIS Meyr. Trans. Ent. Soc. 1884, p. 33.

N. Zealand.

†*Noctuelia intrudens* Warr. A. M. N. H. (6) ix. p. 175 (1892).

(12)†NOCTUELIA THALIALIS Wlk. xviii. 582. U.S.A.; Haiti.

†*Anthophila peruviana* Wlk. xxxiii. 804.

†*Pyralis gelidalis* Wlk. xxxiv. 1229.

Emprepes novalis Grote, Can. Ent. 1876, p. 156.

Thelcteria costamaculalis Snell. Tijd. v. Ent. xxx. 1887, p. 54, pl. 4. f. 6.

- (13)†NOCTUELIA NUCHALIS Grote, Bull. U.S. Geol. Surv. iv. p. 675. U.S.A.
 (14)†NOCTUELIA FUSCINERVIS Hmps. Moths Ind. iv. p. 445. N.W. Himalayas.
 (15)†NOCTUELIA LAMPRODETA Meyr. Trans. Ent. Soc. 1886, p. 265. New Guinea; Australia.
 †*Aporocosmus bracteatus* Butl. Trans. Ent. Soc. 1886, p. 399.
 (16)†NOCTUELIA ELAUTALIS, Grote, Papilio, i. p. 168. U.S.A.
Emprepes magnalis Hulst, Tr. Am. Ent. Soc. xiii. p. 147.
 (17) NOCTUELIA SIMPLEX Warr. A. M. N. H. (6) xvi. p. 474. U.S.A.
 (18) NOCTUELIA ISATIDALIS Dup. Léop. Fr. viii. p. 336, pl. 233. f. 3. Europe.
 (19) NOCTUELIA DESERTALIS Hübn. Pyr. f. 17. S. Europe.
Botys vandalousialis H.-S. vi. p. 142, f. 143.
 (20)†NOCTUELIA UNDULOSELLA Moore, A. M. N. H. (5) i. p. 236 (1878), & 2nd Yarkand Mission, p. 16, pl. i. f. 27. Kashgar.
 (21)†NOCTUELIA SIMILALIS Grote, N. Am. Ent. i. p. 94. U.S.A.

Auctorum.

- Aporodes dentifascialis* Chr. Rom. Mém. iii. p. 20, pl. i. f. 9. W. Asia.
Noctuelia plebeialis Chr. Hor. Ent. Ross. xvii. p. 118, & Rom. Mém. iii. pl. i. f. 12. Armenia.
Aporodes arbutalis Snell. Tijd. v. Ent. xxiii. p. 190, pl. xi. f. 2. S. America.
 „ *yaminalis* Oberth. Et. Ent. xii. p. 35, pl. vi. f. 35. Algeria.
Noctuelia mardinalis Staud. Deutsch. Ent. Zeit., Lep. v. pl. iii. f. 16, & vi. p. 71. Kurdistan.

Genus 155. HELIOTHELA.

Heliothela Guen. Delt. & Pyr. p. 152 (1854).

Palpi porrect, the 2nd joint fringed below with hair towards extremity, the 3rd prominent; maxillary palpi dilated with scales;

Fig. 155.



Heliothela ophideresana, ♂. §. (From Moths Ind. vol. iv.)

frons rounded; antennæ of male somewhat thickened and minutely ciliated; legs short, the tibiæ smoothly scaled, with the spurs

moderate; wings short and broad. Fore wing with vein 3 from close to angle of cell; 4, 5 from angle; 6, 7 from upper angle. 7 anastomosing with 8.

(1)†*HELIOTHELA PERSUMPTANA* Wlk. xxviii. 459.

Australia; Tasmania.

(2) *HELIOTHELA OPHIDERESANA* Wlk. xxviii. 459. Madagascar; India; Ceylon; Australia.

Heliothela pusilla Butl. Ill. Het. vii. p. 93, pl. 134. f. 15.

(3)†*HELIOTHELA OCHREIPENNIS* Butl. Trans. Ent. Soc. 1886, p. 429, pl. x. f. 9. Australia

(4)†*HELIOTHELA NIGRALBATA*, n. sp.

♂. Black-brown; fore wing with a pale mark beyond discocellulars; hind wing with a large pure white quadrate spot beyond the cell; underside with the spots on both wings pure white.

Hab. Chekiang, China. *Exp.* 14 mm.

Type. (5) *HELIOTHELA ATRALIS* Hübn. Pyr. f. 27. S. Europe; W. Asia.

Pyralis undulalis Schr. Faun. Boic. 1792.

„ *obfuscatu* Scop. Ent. Carn. 582.

(6)†*HELIOTHELA ATRA* Butl. P. Z. S. 1877, p. 404. N. Zealand.

(7)†*HELIOTHELA PRÆGALLIENSIS* Frey, Lep. Schw. p. 253.

Switzerland.

Auctorum.

Nyctarcha paracentra Meyr. Trans. Ent. Soc. 1887, p. 245.

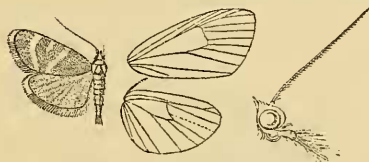
W. Australia.

Genus 156. MIMASARTA.

Mimasarta Rag. Ann. Soc. Ent. Fr. 1894, p. 164.

Palpi porrect, extending about twice the length of head, clothed with long hair hiding the 3rd joint; maxillary palpi with tuft of long hair at extremity; frons rounded and hardly prominent;

Fig. 156.



Mimasarta niveifascialis, ♂. $\frac{3}{4}$.

antennæ of male ciliated; legs smoothly scaled, hind tibiæ with the spurs nearly equal. Fore wing short and broad; vein 3 from near angle of cell; 5 from above angle; 7 well separated from 8, 9. Hind wing with the cell half the length of wing; vein 3 from

before angle of cell; 5 from above angle and almost obsolete; 6, 7 from upper angle, 7 anastomosing with 8 almost to apex.

Type. *MIMASARTA NIVEIFASCIALIS Rag. Ann. Soc. Ent. Fr. 1894, p. 164, & Mon. Phyc. ii. pl. xxiv. f. 6. Marghilan, C. Asia.

Genus 157. METAPROTUS, nov.

Palpi porrect and short, the 2nd joint fringed with long hair, the 3rd naked; maxillary palpi minute and filiform; proboscis minute; frons with a pointed corneous prominence; antennæ of female minutely ciliated; tibiæ moderately hairy, the spurs moderate. Fore wing with the costa slightly excised beyond middle; the apex somewhat produced and acute, and the outer margin somewhat excised below apex; veins 3, 4, 5 well separated at origin; 6 from below upper angle; 7, 8, 9, 10 from cell near upper angle. Hind wing with vein 3 from before angle of cell; 5 from above the angle; 6, 7 from upper angle, 7 anastomosing with 8.

Fig. 157.



Metaprotus asuridia, ♀. †.

Type. (1)†METAPROTUS ASURIDIA Butl. Trans. Ent. Soc. 1886, p. 430, pl. x. f. 5 (♀). Queensland.

(2)*METAPROTUS MAGNIFICA Meyr. Trans. Ent. Soc. 1887, p. 200, Australia.

Genus 158. SIMÆTHISTIS.

Simæthistis Hmps. Moths Ind. iv. p. 446 (1896).

Palpi porrect, the 2nd joint fringed with long hair below, the 3rd prominent; maxillary palpi minute; frons with a rounded

Fig. 158.



Simæthistis tricolor, ♂. †. (From Moths Ind. vol. iv.)

prominence; antennæ annulate. Fore wing with veins 3, 4 from angle of cell; 5 from well above angle; 6, 7, 8, 9, 10 at regular

intervals. Hind wing with veins 3, 4 from angle of cell; 5 from middle of discocellulars; 6, 7 from upper angle, 8 approximated to 7 for a short distance beyond end of cell, but not anastomosing with it.

Type. †*SIMÆTHISTIS TRICOLOR* Butl. Ill. Het. vii. p. 95, pl. 134. f. 18.
N.W. Himalayas.

Genus 159. *STENOPTYCHA.*

Stenoptycha Zell. S. E. Z. 1863, p. 154.

Palpi porrect, extending hardly the length of head, the 1st joint very broadly scaled below, the 2nd with shorter scales extending as far as the short naked 3rd joint; maxillary palpi small and dilated with scales; frons with a rounded prominence; antennæ longer than fore wing, annulate and ciliated; legs very long and slender, tibiæ with the spurs minute; abdomen long and slender, with lateral tufts. Fore wing very long and narrow, veins 3, 4, 5 from angle of cell; 6 from below upper angle; 8, 9 stalked. Hind wing somewhat ample; veins 3, 4 from angle of cell; 5 absent; cell long; 6, 7 from upper angle; 8 becoming coincident with 7.

Fig. 159.



Stenoptycha celodactyla, ♂. †.

Type. (1) *STENOPTYCHA CÆLODACTYLA* Zell. S. E. Z. 1863, p. 154, pl. ii. f. 12. Ecuador; Bogota; Chili.
 ,, *lindigi* Feld. Reise Nov. pl. 140. f. 61.
 + ,, *zelleri* Butl. Trans. Ent. Soc. 1883, p. 57.
 Agathodes dubitalis Maasen, Stübel's Reise, p. 170, pl. ix. f. 21.

(2) †*STENOPTYCHA PTEROPHORALIS* Wlk. xxxiv. 1340. St. Domingo.

(3) **STENOPTYCHA ERSCHOFFIANA* Zell. Hor. Ent. Ross. xiii. p. 457, pl. vi. f. 159. Bogota.

Genus 160. *LINEODES.*

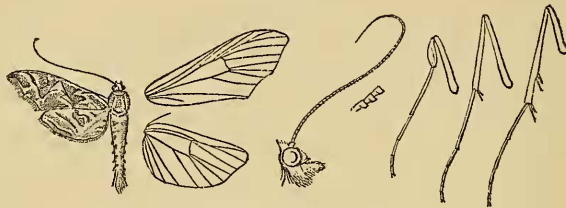
Lineodes Guen. Delt. & Pyr. p. 234 (1854).

Scoptonoma Zell. Verh. z.-b. Wien, xxiii. p. 328 (1873).

Palpi porrect, hardly the length of head, the 1st joint very broadly fringed with scales below, the 2nd with shorter scales projecting as far as the short naked 3rd joint; maxillary palpi filiform;

frons oblique; antennæ somewhat longer than fore wing and annulate; legs very long and slender; tibiæ with the spurs short; abdomen long and slender, with paired lateral tufts. Fore wing very long and narrow; veins 3, 4, 5 from angle of cell; 6 from below upper angle; 7 straight and well separated from 8, 9. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle, 7 anastomosing with 8 to three-fourths of wing.

Fig. 160.

*Lineodes hieroglyphalis*, ♂. $\frac{2}{3}$.

- Type.* (1) *LINEODES HIEROGLYPHALIS* Guen. Delt. & Pyr. p. 235, pl. 3, f. 6. Brazil.
 (2) *LINEODES CONTORTALIS* Guen. Delt. & Pyr. p. 236. U.S.A.; Brazil.
 (3) *LINEODES INTEGRATA* Zell. Verh. z.-b. Wien, xxiii. p. 328, pl. iv. f. 44. U.S.A.; Brazil.
 (4) *LINEODES INTERRUPTA* Zell. Verh. z.-b. Wien, xxiii. p. 329. Texas.
 (5) *LINEODES SERPULALIS* Led. Wien. Ent. Mon. 1863, p. 417, pl. 15. f. 8. Brazil.

Auctorum.

- Lineodes pulchralis* Guen. Delt. & Pyr. p. 235. Brazil.
 „ *triangulalis* Möschl. Abh. Senck. Ges. xvi. p. 305. Porto Rico.
 „ *metagrammalis* Möschl. Abh. Senck. Ges. xvi. p. 305. Porto Rico.

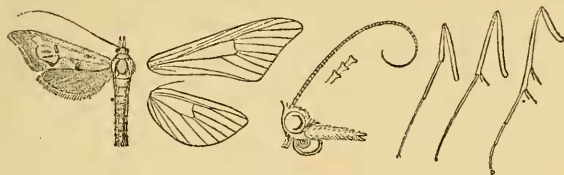
Genus 161. *TINEODES*.

Tineodes Guen. Delt. & Pyr. p. 236 (1854).
Carcantia Wlk. xvii. 424 (1858).

Palpi porrect, the 2nd joint three times length of head, thickly scaled, and with hair projecting from extremity extending as far as the short naked 3rd joint; maxillary palpi triangularly dilated with scales; frons roughly scaled; antennæ longer than the fore wing and annulate; legs very long and slender, the outer spurs half the length of inner. Fore wing very long and narrow; veins 3, 4, 5 well separated at origin; 6 from well below upper angle;

8, 9 stalked. Hind wing long and narrow; veins 3, 4 well separated at origin; 5 from middle of discocellulars; 6, 7 on a long stalk, 8 becoming coincident with 7.

Fig. 161.

*Tineodes adactylalis*, ♂. †.

Type. TINEODES ADACTYLALIS Guen. Delt. & Pyr. p. 237, pl. 9. f. 7.
 †*Carcantia pterophoralis* Wlk. xvii. 425. Australia.

GENERA AUCTORUM.

- Acclalis iridalis* Pag. J.B. Nass. Ver. xxxvii. p. 270, pl. vii. f. 7.
Amboina.
- Alyta calligrammalis* Mab. Bull. Soc. Philom. (7) iii. p. 143.
Madagascar.
- Ancyloptila lactoides* Pag. J.B. Nass. Ver. xxxix. p. 170, & Meyr.
Trans. Ent. Soc. 1889, p. 509. Aru.
- Barisoa intentalis* Möschl. Abh. Senck. Ges. xiv. p. 83. Jamaica.
- Berdura pupillalis* Möschl. Abh. Senck. Ges. xiv. p. 78.
Jamaica.
- Catacteniza euvevalis* Möschl. Abh. Senck. Ges. xvi. p. 314, f. 13.
Porto Rico.
- Cataonia monocerialis* Rag. Ann. Soc. Ent. Fr. (6) x. p. 450.
Armenia.
- Clepsicosma iridia* Meyr. Tr. N. Z. Inst. xx. p. 64. N. Zealand.
- Crossophora miscellalis* Möschl. Abh. Senck. Ges. xvi. p. 308.
Porto Rico.
- Decelia terrosalis* Snell. Tidj. v. Ent. xxiii. p. 231, & xxvii. pl. iv.
f. 1 a, b. Celebes.
- Diaphantania conspicualis* Möschl. Abh. Senck. Ges. xvi. p. 314.
Porto Rico.
- Enyocera latilimbalis* Snell. Midd.-Sum. iv. (1) 8, p. 67.
Sumatra.
- Epimetusia vestalis* Rag. Ann. Soc. Ent. Fr. 1894, pp. 173, 226.
Persia.
- „ *rhodobaphialis* Rag. Ann. Soc. Ent. Fr. 1894, pp. 173,
226. C. Asia.
- Gonocausta zephyralis* Led. Wien. Ent. Mon. 1863, p. 436.
Amboina.
- Hercynella staudingeri* Beth. Baker, Ent. Mag. xxix. p. 204.
N. Persia.

- Hercynella margelana* Beth. Baker, Ent. Mag. xxix. p. 205. N. Persia.
Hyalopsis compositalis Led. Wien. Ent. Mon. 1863, p. 358, pl. 8. Brazil.
 f. 3.
Lampridia fuliginalis Snell. Tijd. v. Ent. xxiii. p. 234, & xxvii. Celebes.
 pl. 4. ff. 4, 4 a.
Motya abseusalis Wlk. xix. 1022. Brazil.
Peleca ramalis Hübn. Samml. Eur. Schmett., Pyr. f. 92. Italy.
Pilemia deformalis Möschl. Verh. z.-b. Wien, xxxi. p. 427, Surinam.
 pl. xviii. f. 36.
Psara pallicaudalis Snell. Tijd. v. Ent. xviii. p. 239, pl. xiii. W. Indies.
 ff. 13, 14.
 „ *selenialis* Snell. Tijd. v. Ent. xxxviii. p. 146, pl. vi. f. 5. Java.
Rapoona tristis Hedemann, Stett. Ent. Zeit. lv. p. 293. St. Thomas.
Somatania pellucidalis Möschl. Abh. Senck. Ges. xvi. p. 301, Porto Rico.
 f. 22.
Syndicastis heteromima Meyr. Trans. Ent. Soc. 1889, p. 507. N. Guinea.

APPENDIX.

LIST OF SPECIES OMITTED.

- Ædiodes bacisalis* Wlk. xix. 935. Type lost.
Asopia niobesalis Wlk. xix. 939. Type lost.
Acripia subolivacea Wlk. xxvii. 9, belongs to the *Noctuidæ*.
Audia mixtalis Wlk. xxvii. 18. Type lost.
Acrobasis latiorella Wlk. xxvii. 29, belongs to the *Noctuidæ*.
Arrade erebusalis Wlk. xxvii. 82, belongs to the *Deltoidinæ*.
Adricara albodiscata Wlk. xxvii. 115, belongs to the *Tineidæ*.
Adra argentilinea Wlk. xxvii. 138, belongs to the *Noctuidæ*.
Arsacia saturalis Wlk. xxxiv. 1260, belongs to the *Noctuidæ*.
Arsisaca bolinalis Wlk. xxxiv. 1262, belongs to the *Noctuidæ*.
Abacena discalis Wlk. xxxiv. 1270, belongs to the *Acontiinæ*.
Acrobia depressalis Wlk. Trans. Ent. Soc. (3) i. 122. Type lost.
Acrobasis cryptoleucella Wlk. xxxv. 1709, belongs to the *Tineidæ*.
 „ *atratelya* Wlk. xxxv. 1712, belongs to the *Tineidæ*.
Archanara nonogrisella Wlk. xxxv. 1737, belongs to the *Noctuidæ*.
Andrappa basalis Wlk. xxxv. 1742, belongs to the *Sarrothripinæ*.
Banassa rutilans Wlk. xxvii. 20, belongs to the *Sarrothripinæ*.
Beara dichromella Wlk. xxxv. 1703, belongs to the *Noctuidæ*.
 „ *nubiferella* Wlk. xxxv. 1704, belongs to the *Noctuidæ*.
Botys pyrrhusalis Wlk. xviii. 600. Type lost.
 „ *niavialis* Wlk. xviii. 611. Type lost.
 „ *lysanderalis* Wlk. xviii. 603. Type lost.
 „ *dryopealis* Wlk. xviii. 672. Type lost.
 „ *nephealis* Wlk. xviii. 673. Type lost.
 „ *myrinalis* Wlk. xviii. 673. Type lost.

- Botys brevilinealis* Wlk. xviii. 674. Type lost.
 „ *thaisalis* Wlk. xviii. 674. Type lost.
 „ *dialis* Wlk. xviii. 675. Type lost.
 „ *annulalis* Wlk. xviii. 675. Type lost.
 „ *phycidalis* Wlk. xviii. 675. Type lost.
 „ *theialis* Wlk. xviii. 689. Type lost.
 „ *acilialis* Wlk. xix. 988. Type lost.
 „ *polydealis* Wlk. xix. 998, belongs to the *Geometridæ*—*Gymnoscelis*.
 „ *nesusalis* Wlk. xix. 991. Type lost.
 „ *aquilalis* Wlk. xxxiv. 1395. Type lost.
 „ *tortipennis* Wlk. xxxiv. 1395. Type lost.
 „ *bilunulalis* Wlk. xxxiv. 1398, belongs to the *Noctuidæ*.
 „ *longalis* Wlk. xxxiv. 1403. Type lost.
 „ *interruptalis* Wlk. xxxiv. 1406. Type lost.
 „ *canalis* Wlk. xxxiv. 1429. Type lost.
 „ *columbalis* Wlk. xxxiv. 1454. Type lost.
 „ *acuminatalis* Wlk. xxxiv. 1454. Type lost.
 „ *imparatalis* Wlk. xxxiv. 1416, is a Geometer = *Chlorochystis recensitaria* Wlk.
 „ *disparalis* Wlk. xxxiv. 1438, is a *Cirrhochrista* near *semi-brunnea* Hmps., *Schenobiinæ*.
 „ *semifœdalis* Wlk. xxxiv. 1439, belongs to the *Galleriinæ*.
 „ *graminalis* Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv. p. 18; *geminatalis*, *germunalis*, *episcopalis*, p. 19; *glirialis*, *gracilalis*, *harpalis*, *semifulvalis*, p. 20; *subviolalis*, *subaurantialis*, *subhyalinialis*, *tiliaralis*, p. 27; *hesperialis*, *idonealis*, p. 28; *dilutalis*, *illepidalis*, *impeditalis*, *impulsalis*, *impuralis*, *infixalis*, p. 29; *lualis*, p. 30. Types lost; descriptions inadequate. From Cuba.
 „ *immaculalis* Hulst, Tr. Am. Ent. Soc. xiii. p. 154, is not a Pyrale.
- Cavifrons biundulalis* Zell. Verh. zool.-bot. Ges. Wien, 1872, p. 502, pl. iii. f. 14, from U.S.A., is a Noctuid.
- Cataclysta bisectalis* Wlk. xvii. 449, belongs to the *Acontiinæ*.
Clettharra valida Wlk. xxvii. 101, belongs to the *Sarrothripinæ*.
Characoma albulalis Wlk. xxvii. 107, belongs to the *Noctuidæ*.
Colubatha metaspilalis Wlk. xxvii. 126, belongs to the *Acontiinæ*.
Cophanta funestalis Wlk. xxx. 964, belongs to the *Acontiinæ*.
Cyza punctalis Wlk. xxx. 965. Type lost.
Chlumetia guttiventris Wlk. xxxiv. 1271, belongs to the *Sarrothripinæ*.
Cossedia erateinalis Wlk. xxxiv. 1277. Type lost.
Casa viduella Wlk. xxxv. 1729, belongs to the *Nolinæ*.
Cutina albopunctella Wlk. xxxv. 1735, belongs to the *Noctuidæ*.
Cretonia platyphœella Wlk. xxxv. 1736, belongs to the *Sarrothripinæ*.
Cœnostola quadrifenestralis Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv. p. 21; from Cuba. Type lost.

- Diasemia completalis* Wlk. xxxiv. 1327. Type lost.
- Daraba vitellialis* Wlk. xvii. 386, belongs to the Deltoids. Genus *Arrade*.
- Dosara lapsalis* Wlk. xix. 829, belongs to the *Phycitinae*—*Ancylodes*.
- Davara azonaxsalis* Wlk. xix. 1020, belongs to the *Phycitinae*—*Phycita*.
- Dantona busalis* Wlk. xix. 1021, belongs to the *Noctuidæ*.
- Davana phalantalis* Wlk. xix. 831. Type lost.
- Desmia acriasalis* Wlk. xix. 934. Type lost.
- Daulia indecora* Wlk. xxvii. 5, belongs to the *Cossidæ*.
- Derchis horridalis* Wlk. xxvii. 7. Type lost.
- Dapha valeusalis* Wlk. xxvii. 125, belongs to the *Tineidæ*.
- Docela vetustalis* Wlk. xxxiv. 1258, belongs to the *Acontiinae*.
- Desmia crudalis* Wlk. xxxiv. 1296. Type lost.
- Deuterollyta majuscula* Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv. p. 17; from Cuba. Type lost.
- Desmia sertorialis, impuralis, quadrinotalis*, p. 24; *personalis, perivialis*, p. 25; Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv.; from Cuba. Types lost, descriptions inadequate.
- Ebulea camillalis* Wlk. xviii. 749. Type lost.
- Egone bipunctalis* Wlk. xxvii. 4, belongs to the *Noctuidæ*.
- Evia ferrinalis* Wlk. xxvii. 89, belongs to the *Noctuidæ*.
- Enispa eosarialis* Wlk. xxxiv. 1275. Type lost.
- Ennychia crassalis* Wlk. xxxiv. 1289. Type lost.
- Ertrica purpurealis* Wlk. xxxiv. 1343. Type lost.
- Enopa mediella* Wlk. xxxv. 1740. Type lost.
- Epiccia externella* Wlk. xxxv. 1740. Type lost.
- Gyrtona pardalina* Wlk. xxvii. 91, belongs to the *Lithosiinae*.
- “ *suffusa* Wlk. xxvii. 99, belongs to the *Deltoidinae*.
- “ *proximalis, ferrisiusalis, divitalis, conglobalis, semicarbonatis, rotundalis, hylusalis, nigrocinnerea, inclusalis, costella, dorsifasciatis, strenualis, thoracia, monilalis, spitalis, and dorsalis*, Wlk. xxvii. 90–98, belong to the *Noctuidæ*.
- Gargaza tristrigella* Wlk. xxxv. 1734, belongs to the *Sarrothripinae*.
- Gabara subnivosella* Wlk. xxxv. 1740, belongs to the *Sarrothripinae*.
- Gorama strenuella* Wlk. xxxv. 1749. Type lost.
- Hibita arcturella* Wlk. xxvii. 10, belongs to the *Noctuidæ*.
- Hypochalcis pyralinalis* Wlk. xxvii. 45. Type lost.
- “ *perlignealis* Wlk. xxvii. 46, belongs to the *Noctuidæ*, genus *Gyrtona*.
- “ *repugnalis* Wlk. xxvii. 47, belongs to the *Deltoidinae*.
- Hamaxia lignulina* Wlk. xxvii. 128, belongs to the *Deltoidinae*.
- Homæosoma bilituralis* Wlk. xxx. 955. Type lost.
- Hisbanda acronyctoides* Wlk. xxxiv. 1268. Type lost.
- Herbula submarginalis* Wlk. xxxiv. 1284, belongs to the *Tineidæ*.
- “ *multiferalis* Wlk. xxxiv. 1286, belongs to the *Tineidæ*.
- Hydrocampa dispulsalis* Wlk. xxxiv. 1341. Type lost.
- “ *inornata* Wlk. xxxiv. 1341. Type lost.
- “ *discoloralis* Wlk. xxxiv. 1342. Type lost.

- Herbula determinata* Wlk. Ent. v. p. 134. Type lost.
Hellula simplicialis Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv. p. 17; from Cuba. Type lost.
Illice batialis Wlk. xix. 1019 = *Scoparia stupidalis* xxxiv. 1497, is a Lithosid.
Iambia inferalis Wlk. xxvii. 109, belongs to the *Noctuide*.
Isopteryx canescens Wlk. xxxiv. 1318, belongs to the *Deltoidine*.
 „ *favillalis* Wlk. xxxiv. 1319 = *canescens*, belongs to the *Deltoidine*.
Lineodes peridialis Wlk. xix. 948. Type lost.
Lacipea muscocella Wlk. xxvii. 138. Type lost.
Lephana tetraphorella Wlk. xxxv. 1702, belongs to the *Noctuide*.
Letoa patulella Wlk. xxxv. 1738. Type lost.
Lineodes gracillalis, multisignalis Herr.-Schäff. Ver. Regens. Corresp.-Blatt, xxv. p. 22; from Cuba. Types lost.
Mella dymnisalis Wlk. xix. 1018 = *Etiella zinckenella*, belongs to the *Phycitine*.
Maschane erratipennis Wlk. xxvii. 3, belongs to the *Notodontide*.
 „ *simplex* Wlk. xxvii. 3, belongs to the *Notodontide*.
Motina æqualis Wlk. xxvii. 12, belongs to the *Noctuide*.
 „ *disparalis* Wlk. xxvii. 13, belongs to the *Noctuide*.
Musoga panagratis Wlk. xxvii. 16. Type lost.
Marisba undulifera Wlk. xxvii. 17. Type lost.
Midea rectalis Wlk. xxvii. 21, belongs to the *Noctuide*.
Myelois marsyusalis Wlk. xxvii. 37. Type lost.
 „ *basifuscalis* Wlk. xxvii. 38. Type lost.
Moduna palpigera Wlk. xxvii. 84, belongs to the *Deltoidine*.
Maliattha separata Wlk. xxvii. 86, belongs to the *Acontiine*.
Moca velutina Wlk. xxvii. 102, belongs to the *Tineide*.
 „ *dentilinea* Wlk. xxvii. 103, belongs to the *Sarothripine*.
Medava diminuens Wlk. xxvii. 113, belongs to the *Sarothripine*.
Madoce leucocosmalis Wlk. xxvii. 117, belongs to the *Deltoidine*.
 „ *lineatula* Wlk. xxvii. 118. Type lost.
Masthala favillalella Wlk. xxx. 962. Type lost.
Madiama nigroscitalis Wlk. xxx. 964. Type lost.
Molvina guttalis Wlk. xxxiv. 1267, belongs to the *Lithosiine*.
Macaduma tortricella Wlk. xxxv. 1705, belongs to the *Lithosiine*.
Monilia semicanella Wlk. xxxv. 1741, belongs to the *Tineide*.
Nephoteryx spoliata Wlk. xxvii. 63, belongs to the *Noctuide*.
 „ *etolusalis* Wlk. xxvii. 64. Type lost.
 „ *harpaxalis* Wlk. xxvii. 65. Type lost.
 „ *cyllusalis* Wlk. xxvii. 65. Type lost.
 „ *acisalis* Wlk. xxvii. 66 = *Gyrtona hylusalis*—*Noctuide*.
 „ *argiadesalis* Wlk. xxvii. 66. Type lost.
 „ *æolusalis* Wlk. xxvii. 66. Type lost.
 „ *rudisella* Wlk. xxvii. 70, belongs to the *Noctuide*, genus *Arrade*.
Nigramma quadratiferæ Wlk. xxvii. 77, belongs to the *Noctuide*.
Nanaguna breviscula Wlk. xxvii. 85, belongs to the *Sarothripine*.

- Nanaguna stipata* Wlk. xxvii. 86, belongs to the *Noctuidæ*.
Necla canioralis Wlk. xxvii. 100, belongs to the *Nolinæ*.
 „ *concinnulla* Wlk. xxvii. 100. Type lost.
Nachaba transversa Wlk. xxvii. 114, belongs to the *Sarrothripinæ*.
Nephopteryx phycisella Wlk. xxx. 957. Type lost.
 „ *neglectalis* Wlk. xxx. 958. Type lost.
Niaccaba sumptualis Wlk. xxxiv. 1272, belongs to the *Deltoidinæ*.
Nagara phryganealis Wlk. xxxiv. 1378, belongs to the *Noctuidæ*.
 „ *steiriæ* Wlk. xxxiv. 1379, belongs to the *Noctuidæ*.
Nigetia formosalis Wlk. xxxiv. 1506, belongs to the *Nolinæ*.
Nabara limacodella Wlk. xxxv. 1706, belongs to the *Sarrothripinæ*.
Nephopteryx variella Wlk. xxxv. 1718. Type lost.
 „ *demptella* Wlk. xxxv. 1721, belongs to the *Noctuidæ*.
Orthomecyna exigua Butl. E. M. M. xv. p. 271: belongs to the
Crambinæ = *cupripennis* Butl. E. M. M. xix.
 p. 178; the genus is allied to *Platytes*.
 „ *albicaudata* Butl. E. M. M. xix. p. 178: do.; do.
 „ *aphanopsis* Meyr. Tr. Ent. Soc. 1888, p. 227: do.; do.
Oratha significata Wlk. xxvii. 15, belongs to the *Geometridæ*.
Olulis puncticinctalis Wlk. xxvii. 127, belongs to the *Deltoidinæ*.
Orthaga pyralisalis Wlk. xxvii. 105. Type lost.
Pionea susialis Wlk. xviii. 760, belongs to the *Noctuidæ*—*Acontiinæ*.
Phazaca erosoides Wlk. xxvii. 21, belongs to the *Epiplemidæ*.
Pena costalis Wlk. xxvii. 130, belongs to the *Geometridæ*.
Pindicitora acreonalis Wlk. xxvii. 136. Type lost.
 „ *annusalis* Wlk. xxvii. 136. Type lost.
Pontana rubrana Wlk. xxx. 954. Type lost.
Pardasena acronyctella Wlk. xxxv. 1730, belongs to the *Sarrothri-*
pinae.
 „ *minorella* Wlk. xxxv. 1730, belongs to the *Sarrothri-*
pinae.
Rhodaria formosalis Wlk. xxxiv. 1284, belongs to the *Acontiinæ*.
Scoparia stupidalis Wlk. Tr. Ent. Soc. (3) i. p. 127, belongs to the
Lithosinæ = *Illice batialis* Wlk. xix. 1019.
Scopula hastiferalis Wlk. xxxiv. 1473, belongs to the *Crambinæ* =
Culladia admigratella Wlk.
Salbia lenalis Wlk. xvii. 362. Type lost.
Silda truncatalis Wlk. xxvii. 131, belongs to the *Noctuidæ*.
Scopula comptalis Wlk. xxxiv. 1462, belongs to the *Deltoidinæ*.
 „ *limasalis* Wlk. xxxiv. 1464. Type lost.
 „ *foedalis* Wlk. xxxiv. 1466, belongs to the *Deltoidinæ*.
 „ *nexalis* Wlk. xxxiv. 1473. Type lost.
 „ *arcuatalis* Wlk. xxxiv. 1474, belongs to the *Tortricidæ*.
 „ *figuralis* Wlk. xxxiv. 1475, belongs to the *Noctuidæ*.
 „ *vinctalis* Wlk. xxxiv. 1476, belongs to the *Noctuidæ*.
 „ *pulverosalis* Wlk. xxxiv. 1478, belongs to the *Deltoidinæ*.
 „ *variabilis*, *flexifera*, *serpentina*, *effrenata*, *includens*, *inscitu*,
 and *submarginalis*, Wlk. Ent. v. pp. 151-153, from the
 Red Sea. Types lost.

- Symitha nolalella* Wlk. xxxv. 1731, belongs to the *Sarrothripinæ*.
Subrita abrostoletta Wlk. xxxv. 1744, belongs to the *Noctuidæ*.
 „ *bilineatella*, *curviferella*, *latifasciella*, *metaspilella*, *parvella*,
circulella, and *basiqerella*, Wlk. xxxv. 1744-48, belong to
 the *Sarrothripinæ*.
Torone hyblæoides Wlk. xxvii. 6, belongs to the *Sarrothripinæ*.
Tipasa nebulosella Wlk. xxvii. 129, belongs to the *Deltoidinæ*.
Tirathaba mundella Wlk. xxx. 961, belongs to the *Gallerianæ*.
Tomissa fervidella Wlk. xxx. 979. Type lost.
Tribunta scabralis Wlk. xxxiv. 1507, belongs to the *Nolinæ*.
 „ *biguttalis* Wlk. xxxiv. 1507, belongs to the *Nolinæ*.
Toiana venosella Wlk. xxxv. 1732, belongs to the *Lithosinæ*.
Tamusida vittalis Wlk. xxxv. 1733, belongs to the *Sarrothripinæ*.
Vinzela inaptalis Wlk. xxxiv. 1261. Type lost.
Zebronia cæliusalis Wlk. xix. 966. Type lost.
 „ *bialis* Wlk. xix. 968. Type lost.
Zia tactalis Wlk. xxvii. 110, belongs to the *Nolinæ*.
Ziza ostentalis Wlk. xxvii. 119, belongs to the *Deltoidinæ*.
Zuncacetha bipartita Wlk. xxvii. 134, belongs to the *Geometridæ*.
Zitna albicinctalis Wlk. xxxiv. 1277. Type lost.
Zebronia discerptalis Wlk. xxxiv. 1348. Type lost.
 „ *teneralis* Wlk. xxxiv. 1345, belongs to the *Deltoidinæ*.

March 7, 1899.

Prof. G. B. HOWES, LL.D., F.R.S., Vice-President,
 in the Chair.

The Secretary read the following report on the additions to the Society's Menagerie during the month of February 1899:—

The total number of registered additions to the Society's Menagerie during the month of February was 112, of which 31 were by presentation, 6 by birth, 43 by purchase, and 32 on deposit. The total number of departures during the same period by death and removals was 104.

Amongst the additions special attention may be called to the fine series of Cassowaries deposited by the Hon. Walter Rothschild, F.Z.S., which now embraces examples of the following eight species:—*Casuaris bicarunculatus*, *C. australis*, *C. salvadorii*, *C. beccarii*, *C. violicollis*, *C. occipitalis*, *C. bennetti*, and *C. papuanus*.

In exhibiting specimens of the freshwater Jellyfish (*Limnocnida tanganyice*), from Lake Tanganyika, Mr. J. E. S. Moore said that